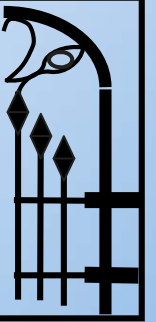
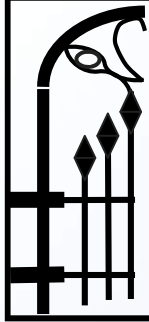


# Purchasing's Gateway to New Sources

# The Gateway

*Helping to Keep Purchasing Decision Makers Informed*  
25,000+ people read *The Gateway* in over 7500 companies.

SUBSCRIPTIONS: FREE    **DECEMBER 2016**    Issue No. 210



## ROUTING

- Buyer \_\_\_\_\_
- Mfg Engrg \_\_\_\_\_
- Engrg Mgr \_\_\_\_\_
- Mat Mgr \_\_\_\_\_
- Production \_\_\_\_\_
- Marketing \_\_\_\_\_
- Other \_\_\_\_\_
- Return to \_\_\_\_\_



# Precision Sheet Metal Fabrication & Forming for Over 60 Years

- Deep Draw Hydroforming
- 5 Axis Laser Cutting, Welding & Machining
- Sheet Metal Fabrication
- Metal Spinning
- On-Site Hydrogen Heat Treating
- Multi Axis Machining
- MIG, TIG & Spotwelding
- Tool Design & Manufacturing
- Consulting, Engineering & DFM
- CMM Inspection
- R & D Work & Production Orders

– ISO 9001:2008 & ITAR registered –

[www.mushield.com](http://www.mushield.com)  
[www.hydroformingmanufacturing.com](http://www.hydroformingmanufacturing.com)

## MuShield®

The Mushield Company • 9 Ricker Ave., Londonderry, NH 03053  
 603-666-4433 • [info@mushield.com](mailto:info@mushield.com)

Ask our engineers a question or request a Design Guide or Sample Kits at 888-669-3539 or [www.hydroformingmanufacturing.com](http://www.hydroformingmanufacturing.com) or [www.MuShield.com](http://www.MuShield.com).

## Solutions for a healthier work environment

Reduce.....heat fatigue, un-healthy air quality, negative pressure-cold drafts



Quietaire fabric ducted fresh air make up



High Velocity fresh air intake systems

Air to Air heat exchangers



**VentilationUSA** 800-622-8078 [www.ventusa.com](http://www.ventusa.com)



# HYDE™ Blades and Knives

Industrial Blade Solutions

*Do you have an industrial knife or blade challenge? Hyde has solutions!*



- ☑ Made To Order Solutions
- ☑ Short Lead-Time Solutions
- ☑ Fast, Responsive Quotes



Machine Knives • Industrial Blades • Specials  
*cutting* Rubber • Paper • Food • Cloth & Textiles  
Hydraulic Hose • Packaging • Coated Abrasives

Our in-house capabilities include Laser Cutting, Blanking, Grinding, Vacuum Heat Treating, Honing and much more.

*ISO9001 Registered Quality System*

Hyde Industrial Blade Solutions • 54 Eastford Road, Southbridge, MA 01550  
Ph: (800) 872-4933 or (508) 764-4344 • Fx: (508) 764-8172 • [www.hydeblades.com](http://www.hydeblades.com)

Serving Industry's Machine Knife and Industrial Blade Needs Since 1875

***Hyde Industrial Blade Solutions . . . Solutions You Can Count On!™***

## LASER CUTTING

*Vortex Ilc introduces laser cutting technology in 2014!*



- Rapid prototyping
- 1/2" Clean Cut Stainless
- 1/2" Steel
- 1/4" Aluminum
- ISO 9001-2008 Certified
- ITAR Registered

We now accept all major credit cards!



Defining the Future of Sheet Metal Fabrication

Phone: 978-535-8721

Fax your prints to us today 978-535-5255

[www.vortexmetal.com](http://www.vortexmetal.com) email: [jmcnulty@vortexmetal.com](mailto:jmcnulty@vortexmetal.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.



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

For FREE Coating Sample



Use of the Teflon® mark requires a direct trademark license from DuPont. Customers and distributors of Donwell are hereby notified that this product is licensed by DuPont with the Teflon® mark. DuPont will not endorse coatings by central access to the Teflon® mark.



# 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

# Specialty Indexable Cutting Tools Designed & Manufactured

- SLOTING CUTTERS • SHOULDER MILLS • COUNTERSINKS
- COUNTERBORES • CORNER ROUNDERS • ANGLE MILLS
- RADIUS MILLS • DRILL MILLS • INSERTS • SPECIALS



- Standard tools in stock and ready to ship
- Over 30 years experience with custom indexables
- Rapid response to quote requests
- Excellent delivery times
- Experienced tech support
- Prompt, personal customer service

Call today to request a quote,  
receive a catalog or place an order.



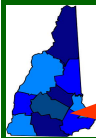
Get 10% off your next order!  
PROMO CODE: GATEWAY



Available through leading distributors and online at [www.cuttingtooltech.com](http://www.cuttingtooltech.com)

Call: 603-654-2550 • Fax: 603-654-2945 • Email: [ctt@tellink.net](mailto:ctt@tellink.net)  
327 Forest Road, P.O. Box 720, Wilton, NH 03086





# NEW HAMPSHIRE MACHINE PRODUCTS

EXETER, NH

New Hampshire Machine Products is located on the site of Exeter's "Old Brickyard" on Route 111. New Hampshire Machine Products manufactures high-quality specialty screw machined and CNC components to customer specifications. They work in a wide variety of ferrous, non-ferrous metals as well as a broad cross section of plastics.

The single-owner shop was purchased by Barbara Michaud and Owen Baril (now retired) in 1988. Owen and Barbara worked together at Exeter Machine and just in a passing comment, Owen said he would love to buy NHMP which happened to be for sale. It struck Barbara as a great idea. So they pooled their resources, became business partners, and bought the business. Today, 28 years later, NHMP is still going strong turning out high quality precision parts. The company's goal from day one has been focused on 100% customer satisfaction which was, and is, based on quality, value, and service.

NHMP is primarily a screw machine shop, but has added some CNC support for some of the tighter tolerances required in some industries today. But make no mistake, there is still lots of work that a screw machine can accomplish with the advantage of overlapping of operations being a timesaver which



*Browne & Sharp single spindle machines are maintained and produce parts to +/- .001" tolerances. Tighter tolerance requirements are set onto bar fed CNC turning centers like the one shown below.*

translates into cost savings for their customers. Their CNC support equipment enhances their options by adding tighter tolerances to the mix.

Their quality assurance program is audit intensive and includes complete internal tracking of all orders from start to finish, including raw material traceability.



*Dave is the screw machine department lead man. He has been with NHMP since 1993 and keeps a very clean and neat shop.*



*Continued on page 7*



# Machining Solutions

We Can Make The Difference When Time & Speed-To-Market Are Critical

## We Offer:

- ▶ Fast Response
- ▶ Engineering
- ▶ Design
- ▶ Consulting
- ▶ Prototypes
- ▶ Kitting
- ▶ Solidworks
- ▶ MasterCam 3D
- ▶ Assembly
- ▶ Value-added Service

## We Can Do:

- ▶ Laser Cutting
- ▶ EDM
- ▶ CNC Milling
- ▶ Laser Engraving
- ▶ Grinding
- ▶ Turning
- ▶ Welding



75 Oxford Ave.  
Dudley, MA 01571  
www.kokosmachine.com



Tel: 508-943-2700  
Fax: 508-949-0372  
info@kokosmachine.com

# 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

### ISO 9001: 2008 CERTIFIED

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

# 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.



www.smslabs.com  
1-866-340-5288

# 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



## OTHER SERVICES

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

**HARDLINE**  
HEAT TREATING, INC.

Consistent On-Time Delivery  
Pick-up & Delivery Available  
Member MTI / ASM

134 Ashland Ave. Southbridge, MA 01550  
www.hardlineheattreating.com

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





*Dan, a graduate of the Seacoast School of Technology school runs an Accuslide Gang Tool CNC for economical, smaller quantity orders requiring close tolerances.*

All of this leads NHMP to consistently fill orders to exacting standards with guaranteed compliance in writing. Their precision turned parts are strictly produced to customer specifications and drawings. NHMP understands the importance of high standards in manufacturing specialty hardware and other components, components used by customers across the USA. They are a Government Contract SAM registered company (System for Award Management) that has been in business since 1976 and their team has more than 40 years of exceptional industrial experience. Owen is the Chairman of NHMP, and even though retired, he keeps active with some of the Engineering requirements of his active company. They also employ people who are highly skilled and enjoy their jobs.



*Owen engineered the Quality phase as essential in order to make the best product possible.*



*Lillian, Barbara's mother has worked in the shop for years running hand screws, cleaning parts and packing customer shipments with tender loving care.*

NHMP specializes in small to medium runs of turned parts from 1/32" to 1 5/8" diameter work in their CNC and conventional screw machines. They work with a wide variety of industries across the board such as defense, aerospace, electronics, energy, environmental, small appliance, food, musical instruments as well as nuts, bolts, screws, washers and rivets, and general manufacturing needs.

Here is a list of their production equipment:

- (2) B&S, #00 Ultra, 1/2" Capacity (with for milling, cross drilling, slotting and back drilling attachments )
- (2) Fagor/Accuslide™ CNC 1 1/16" Capacity
- (1) Hardinge™ Cobra CNC 1 5/8" Capacity (12 Position Turret)
- (1) B&S™, #2 Ultramatic, 4-SP, 1 5/8" Capacity
- (1) B&S, #2G, 1 1/2" Capacity
- (1) B&S, #2G, 1 1/4" Capacity
- (4) B&S, #0G, 3/4" Capacity (with slotting attachments)
- (1) B&S #00G, 1/2" Capacity (High Speed)
- Plus a boatload of secondary and support equipment.

The types of secondary operations they perform are:

- |              |                  |
|--------------|------------------|
| • Broaching  | • Pointing       |
| • Chamfering | • Skiving        |
| • Drilling   | • Slotting       |
| • Groove     | • Swaging        |
| • Forming    | • Tapping        |
| • Knurling   | • Thread Rolling |
| • Milling    | • Threading      |

*Continued on page 9*



## Fabricating & Machining Specialist

- ▶ CNC Turning to 48" dia.
- ▶ CNC Milling (40" x 120")
- ▶ 250" Milling Travel
- ▶ 206" Turning Capacity
- ▶ Repair Specialist
- ▶ 100% Quality Control
- ▶ Certified Welding ASME Sec 8
- ▶ AWS Certified Aluminum, SST
- ▶ ISO 9000 Compliant
- ▶ Pickup & Delivery



## Innovative MACHINE • INC.

40 Snow Road • Winchester, NH 03470

Tel: **603-239-8082**

Fax: 603-239-6380

Contact: Terry Haskins

[www.innovative-machine.com](http://www.innovative-machine.com)

[tmhaskins@innovative-machine.com](mailto:tmhaskins@innovative-machine.com)

## NEW ENGLAND'S FAVORITE PLASTIC SUPPLIER

Sheet • Tube • Rod • Custom Shapes

- |           |          |                |
|-----------|----------|----------------|
| • Acrylic | • Teflon | • Lexan        |
| • Delrin  | • Peek   | • Mechanicals  |
| • Nylon   | • Ultem  | • Polyethylene |

- ◆ CNC Routing
- ◆ Precision Saw Cutting
- ◆ Plastic Welding
- ◆ Fabrication
- ◆ Machining



8 Liberty Drive Londonderry, NH

**800-752-7759**

[sales@plasticsupply.com](mailto:sales@plasticsupply.com)

Visa or MC accepted Quick Turnaround

PLASTIC SUPPLY INC.

PLASTIC SUPPLY INC.



## 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](http://www.peterforg.com)

## Contract Cutting Waterjet

*A customer service driven company since 1967.*

.....  
Large work areas  
Pallet changer  
Superior nesting software for optimum yield  
Prototypes and production

## Laser



Learn more...

**1-800-969-3437**

Visit us at [www.sharplestdie.com](http://www.sharplestdie.com)

**SHARPLES**  
W.R. Sharples Company, Inc.

211 John Dietsch Sq., N. Attleboro, MA 02763





*Parts are aqueous cleaned, bright and shiny ready for assembly into your needs and delivered on-time.*



**Don, caught in the act of checking dimensions.  
That's a good thing!**



*Barbara runs the woman owned business every day and knows everything that's going on in the shop. She also knows and understands how to help customers save money any day of the week.*

### **So you might be asking, why should we do business with New Hampshire Machine Products?**

It means you can place your order with NHMP and get a finished, complete, ready to run part for a far more economical, one-stop ordering experience, with no hassle and pleasant service.

We were delighted with the thought they presented with their website motto:

**Big Enough to Serve You,  
Small Enough To Care!**



# 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

# HIGH PERFORMANCE ALLOY SPECIALIST



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

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

## AEROSPACE ALLOYS, INC.

- 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**

# PRECISION METAL FABRICATION SPECIALISTS

**LASER  
SHEARING  
STAMPING  
BENDING  
FORMING  
ASSEMBLY  
MACHINING  
DRILLING  
TAPPING  
GRINDING  
DEBURRING  
ROBOTIC WELDING  
WELDING (MIG,ARC,TIG AND SPOT)**

## TECH FAB

Precision Metal Fabrication Specialists



**1 West Main Street South Hadley, MA 01075**  
**Tel: 413-532-9022 Fax: 413-536-4647**  
**Email: tech.fab@verizon.net www.techfabinc.com**

- ◆ ENGINEERING ASSISTANCE
- ◆ JIT DELIVERIES
- ◆ ZERO DEFECT QUALITY
- ◆ PROTOTYPE TO PRODUCTION
- ◆ FINISHING SERVICES
- ◆ CAD/CAM
- ◆ DEPENDABLE ON-TIME DELIVERY
- ◆ ACCOUNTABILITY



• 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.*

## “Slurry Blast” Systems

*from Wet Technologies, Inc.*

Deburring • Descaling • Bonding preparation • Mold cleaning • Auto-Marine Aircraft Overhaul

Standard machine features include:

- 100% closed-loop design
  - Stainless Steel or Rotomolded Polymer cabinet construction
  - Pulse-free slurry delivery system
  - Continuous abrasive concentration rating up to 40% by volume
  - Pump-diverted slurry agitation
  - Automatic slurry filtration
  - Boron Carbide Blast Nozzle
  - Large, mushroom-type, thigh-depression switches
  - On-demand window wash
  - External, hinged, light box
  - 500 lb. capacity screened work table.
  - Heavy-duty, replaceable, gummed rubber curtains on interior walls
  - Critical feed and water lines inside the cabinet enclosure for maximum leak protection
  - Quick-disconnect couplings for fast, easy, service
  - Standard SS cabinet base sizes: 36"x36", 50"x50", 60"x60", 72"x72"
- Control package includes blast nozzle air pressure regulator/gauge, rinse water air pressure regulator/gauge, filtration system slurry valve air pressure regulator/timer, elapsed time meter, and safety door interlocks.*



### Dawson-Macdonald Co., Inc.

845 Woburn Street - Wilmington, MA 01887  
Tel: (800) 556-4456 (toll-free) / Fax: (978) 657-8740  
E-mail: info@dawson-macdonald.com

Visit our redesigned website: www.dawson-macdonald.com



## 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



## NEW REFURBISHED FENIX SURFACE GRINDERS (BUILT ON FAVRETTO FRAMES)



Fenix Grinder FA-60  
\$115,000

Fenix Grinder FA-75  
\$125,000

Fenix Grinders are new Grinders, built on the frames of existing Favretto grinders, using all new parts and components and designed using the most current technology. These grinders are designed and manufactured by a group of engineers previously from Favretto and other grinding manufacturers.

Follow this URL direct for more...

<http://www.marenaind.com/fenixfavrettogrinders.html>

Marena Industries  
433 School Street  
East Hartford, CT 06108  
800-862-7362  
[www.marenaind.com](http://www.marenaind.com)  
[marenaind@aol.com](mailto:marenaind@aol.com)



IN BUSINESS SINCE 1960

## Specialists in Swiss Screw Machine Products



Where do you go for the best parts?

When you need to improve your bottom line, the choice is simple... come to Devon for the best overall value in the industry. We offer the highest quality, best price, quick turnaround on all your precision turned parts needs. We welcome your inquiry.

Ready to make the switch?

Swiss / CNC Swiss Screw Machining  
Escomatic  
Centerless Grinding  
CNC Worm Milling & Whirling  
Hobbing and Broaching

Automotive  
Medical  
Firearms  
Appliances  
Military

**DEVON**  
PRECISION INDUSTRIES  
[www.devonp.com](http://www.devonp.com)

Tel 203-879-1437  
Fax 203-879-5556

251 Munson Road  
Wolcott, CT 08718-0070

Contact: David Desaulniers [dave@devonp.com](mailto:dave@devonp.com)

## Precision Sheet Metal Fabrication

- ∞ 3D-CAD
- ∞ SHEARING
- ∞ PUNCHING
- ∞ LASER CUTTING
- ∞ BENDING
- ∞ ROLLING
- ∞ INSERTING
- ∞ WELDING
- ∞ ASSEMBLY
- ∞ FINISHING

"We strive to work closely with our customers in a spirit of cooperation, loyalty and flexibility."

3D Design Help

### Prototypes & Production



Capacity to 1/4" Steel, Aluminum, Stainless Steel, Lexan ... etc.

**Howard Products, Inc.**

7 Brookfield Street, Worcester, MA 01605  
Tel: 508-757-2440 FAX 508-831-9990

[www.HowardProducts.biz](http://www.HowardProducts.biz) E-mail: [sales@howardproducts.biz](mailto:sales@howardproducts.biz)

## High Speed Technologies, Inc

**HST**  
SPINDLE REPAIR



### Precision CNC spindle repair & rebuild.

Milling, Turning, and Stone Cutting.

- Fast turnaround
- Free comprehensive evaluation
- Free quote
- OEM equivalent warranty
- Top name brand parts & bearings
- Precision balancing
- In-house grinding
- Absolutely great customer service

**1-800-248-4478**

16 Deer Run Rd.  
Candia, NH 03034



# RIGGING AND HEAVY HAULING

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



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

# High Efficiency Tri-Mist Coolant Mist Collectors Mist & Smoke Removal Assured

Efficient Oil/Coolant Mist & Smoke Removal

Effective with Both Oil and Water Soluble Metal Working Fluids

No Disposable Filters to Replace

Low Operating Cost Energy Efficient

Virtually Vibration Free



Made in the U.S.A.

Industrial Air Filtration

**Ketcham & Company, Inc.**

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

203-322-6667

## FAST HOLE EDM and WIRE EDM SPECIALIST



Fast Holes are Our Specialty  
 High Speed Production Drilling of EDM Start Holes  
 Safety Wire Holes  
 Most Conductive Materials  
 Core and Ejector Pin Holes Vent Holes

SINKER EDM  
 PRECISION TOOLS & DIES  
 JIGS & FIXTURES  
 SPECIAL APPLICATION MACHINERY  
 WIRE CUT PROTOTYPE PARTS  
 Millions of holes to date.

**Bengtson  Tool & Die Co. Inc.**

765 US Route 3 Phone 603-922-3444  
 Columbia, NH 03590 Fax 603-922-3316  
 E-mail: [dick.btd@gmail.com](mailto:dick.btd@gmail.com)



# TRACEY

GEAR & PRECISION SHAFT

ISO 9001 CERTIFIED

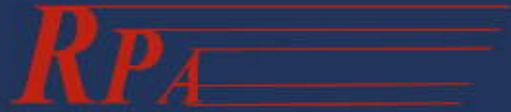
Custom Gears,  
 Thread Grinding,  
 & Precision Shafts!

Serving New England  
 since 1945

740 York Avenue Pawtucket, RI 02861  
 Tel: 800-774-GEAR [www.traceygear.com](http://www.traceygear.com)  
[sales@traceygear.com](mailto:sales@traceygear.com)



# PRECISION FINISHING



*Batch Deburring  
Bead Blasting  
High Energy Tumbling  
Microscopic Deburring  
Passivating  
Polishing  
Shot Blasting  
Vibratory Tumbling*

## VIBRATORY TUMBLING

T:603-335-2132  
F:603-822-2407

www.rpabrasives.com  
ISO 9001:2008 Certified



### Dimensional DESIGN WORKS, LLC

711 Shore Drive, Laconia, NH

Call (603) 527-8608  
sales@dimensionaldesignworks.com  
www.dimensionaldesignworks.com



Serialized UID Tags

Call now for all your  
Laser Engraving, Laser Etching  
and Direct Part Marking needs.



- Co2 and Fiber Lasers
- Serialization available
- Verification to MIL-STD-130

### Gear & Spline Specialty for Over 60 Years!

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  
WWW.UNITEDGEARCT.COM

NO JOB  
TOO  
SMALL!

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

Please tell them you saw  
their ad in  
The Gateway!  
Thank You

### Experience For Yourself The RI Carbide Advantage

- Highest accuracy custom tools
- Improved surface finishes and rapid metal removal
- Choice of 11 unique coatings
- Fast on-time delivery
- Consistently high customer satisfaction



RI Carbide

RI Carbide Tool Co. • Specialty cutting tools since 1959  
www.ricarbide.com • 401-231-1020

Order Wild Mill®+Standard cutting tools online: endmillsbyricarbide.com



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

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

J-1276A



J-1276A

**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)

**The Process Isn't Complete Until It's Been to**



Support Processes for Today's Technologies

Your parts get expert multi-process service at PTI Industries. We complete the processes you need in **1 stop on 1 purchase order**, reducing your manufacturing lead times and helping you improve performance.

**Complete your one-stop processes with:**

- Precision Cleaning
- Adhesive Bonding
- Non-Destructive Testing
- Dry Film Lubrication
- Magnesium Coatings
- Shot Peen
- Passivation
- Pressure Test
- Repair Service

Your industry is covered by our hundreds of specialized process approvals from more than 40 contractors, as well as FAA, EASA, and Nadcap certifications. As the experts in multi-process solutions for more than 30 years, we complete your job on time with accuracy, reliability, and conformance.



**PTI Industries, Inc.**

2 Peerless Way, Enfield, CT 06082

Tel: (860) 698-9266 Fax: (860) 698-6762

Email: [jcartelli@ptiindustries.com](mailto:jcartelli@ptiindustries.com)

<http://ptiindustries.com>



**Slocum Equipment, Inc.**

Quality New & Used Finishing Equipment

[www.slocumequipment.com](http://www.slocumequipment.com) 888-310-2680

**Industrial Finishing  
 Solutions**

**Batch Systems**

Industrial Wash Enclosures  
 Industrial Blast Enclosures  
 Batch Powder Coat Booths  
 Manual Application Equipment  
 Batch Cure Ovens

**Turn-Key Systems**

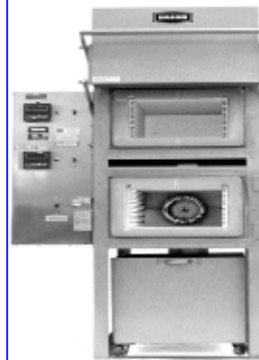
Pretreatment Washers  
 In-Line Powder Coat Booths  
 Automatic Application Equipment  
 In-Line Dry Off / Cure Ovens

**Slocum Equipment, Inc.**

3528 Quaker Lane · North Kingstown, RI 02852  
 Toll Free: 888.310.2680 · Local: 401.294.0001



**LEADER IN HEAT TREATING FURNACES**



• Automatic temperature control from 250°F to 2250°F available in various size machines

• Ideal for jobs in tool rooms, machine shops and laboratories such as:

- Hardening
- Tempering
- Glass & Quartz
- Annealing

*Made in the USA*

[WWW.CRESSMFG.COM](http://WWW.CRESSMFG.COM)  
 CALL TOLL FREE: 800 862-7377  
 (775) 884-2777



# PRESS RELEASE

## Sterling Technologies Inc. Adds Two Okuma 5-Axis Machining Centers

**Sterling Technologies Inc.** (STI) announces the addition of two Okuma 5-Axis Machining Centers to our lineup of cutting-edge precision equipment. These two Genos M560-V with Korna 5-Axis trunnions will increase output for both STI's current and new clients. STI has configured

### Okuma 5 Axis Machining Centers



these machines with some excellent options such as tool and part probing for in-process inspection as well as 1000 psi through-the-spindle coolant for increased efficiency in machining. Even though the 16,000 square-foot STI facility is 100% climate controlled, the Okumas have built-in Thermo Active Stabilizers in the frame construction and spindle, which results in superb, stable machining accuracies.

"We are very excited to have these twin 5-Axis Machining Centers with identical configurations because it allows us the flexibility and efficiency to double up on jobs, when needed, with the same programs, tooling, and set-up," said President and Co-owner Jeff Walker. "The speed, accuracy, and quality of parts coming off both machines is outstanding and allows us to meet our customers' demanding requirements."

Based in Morrisville, Vermont along the spine of the Green Mountains, STI is equipped to work with titanium, ceramics, and other challenging and demanding materials. STI develops innovative processes that produce consistent and predictable results for our customers.

Looking ahead, STI aims to continue to develop long-term relationships while supporting the manufacturing requirements of our client partners. STI is committed to becoming a recognized and trusted Supply Chain Partner to various industries in the Vermont Way which is to under-promise and over-deliver whenever possible.

If you would like to learn more about STI or to submit an RFQ, please visit our new website for more information.

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



# PRESS RELEASE

## Ordering Dow Gages Just Got Easier

Dow Gage, one of the Sirois Tool companies, has made shopping for standard Dow Gage products easier than ever with their new shop online feature. Dow Gage's shop online page lists its ten top standard products for your shopping convenience. Your gage needs are met on one easy-to-order page, with fast shopping cart checkout.

Shop online now for these Dow Gage products:

[Model 10 Dow Gage](#) with die cast aluminum base supporting an adjustable indicator mounting post.

[Tacomp Stub](#) of polished aluminum with steel components machined to receive ANSI/AGD Group 2 dial indicators

[FP-100 Flush Pin Adapter](#) with a 1"-14 NF thread for mounting in Model 10 Dow-Gage or TACOMP Stub.

[Standard Flush Pin Blank](#) available in pin diameters of 1/4", 5/16", 3/8", 7/16" and 1/2".

[Standard Stage Set](#) also available in varying pin diameters.

[Standard LS-Platen](#) is made for varying pin diameters.

[GA-15 Stage Blank](#) is 2-5/8" overall length with 1-3/8" dia. working surface.

[Standard Gage Pins](#) are 3-1/2" overall length with a ground spherical radius on one end and are available in varying decimal sizes ground to a tolerance of +/- .0001"

[Mahr Federal Micro Maxum II](#) inductive digital electronic indicator with both digital and analog readout with digital output.

[Mahr Federal Maxum III](#) digital electronic indicator features both digital display and fan analog display.

When you're looking for Dow Gages, the new shop online <http://dowgage.com/> gives you convenient and secure ordering of these standard Dow Gage products. For modifications to these standard Dow Gage products, or for custom tooling designed and built for your specific application, be sure to visit the [Custom Product](#) or give them a call at (860) 828-2450.



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



**CTLASER  
& ENGRAVING**

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

203-265-9366 | sales@ctlaserengraving.com  
www.ctlaserengraving.com

**pc PAUWAY CORP.**  
**THINK OF THE FINISH BEFORE YOU START!**

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  
53 North Cherry Street  
Wallingford, CT 06492

www.pauwaycorp.com


- Precision Machining -  
- Toolmaking -  
- Jig Grinding Service -

**CLASSIC JIG GRINDING**

jiggrind@snet.net  
classicjiggrinding.com  
Ph (860) 870-4900  
Fax (860)870-1900



**PRECISION MACHINING  
- SINCE 1963 -**



Automatic screw machine and CNC  
Machined products for your industry

**Merrimack Manufacturing Company  
Inc.**

• 217 HARRISON ROAD • BRIDGTON, MAINE 04009  
TELEPHONE 207.647.3566 • FAX 207.647.3588  
mmc6@myfairpoint.net

\* Also available: Inserts for rubber / plastic moldings

**National Chromium** (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

Contract Broaching  
Broach Design  
Broach Manufacturing  
Broach Sharpening & Reconditioning  
**EASTERN BROACH INC.**

60 Woodlawn Road Berlin, CT 06037  
Phone: (860) 828-4800  
Fax: (860) 828-7632

Email: info@eastembroach.com Web: www.eastembroach.com  
Quality Broaching Service in the New England Area Since 1972

**PRECISION GRINDING**

ID & OD GRINDING SURFACE GRINDING  
HONING CNC CYLINDRICAL

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

We serve job shops and do not do machining work!  
Don't turn jobs away if you don't offer grinding! We can help you!

**Bay State Machine, LLC**

21 Center Parkway Plainfield, CT 06374  
Tel: 860-230-0054 Fax: 860-230-0027  
baystatemachine@hotmail.com

Complete Bearing &  
Industrial Supply Solutions



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



www.qpglc.com 1-866-868-9574



Spur & Helical Gears  
Internal / External Splines  
Internal/External Acme Threads  
Involute & SAE Splines  
Reverse Engineering

**LAB THREADS  
&  
GEAR WORKS, INC.**

515 Main Street  
Yalesville, CT 06492  
203-949-9097  
203-949-9697 Fax  
www.labthreads.com  
mike@labthreads.com

**Mini-Broach Machine Co., Inc.**

Contract Broaching Services, Broaches, Tooling,  
Broach Sharpening, & Broaching Machines, with  
over 45 years experience.  
info@Minibroach.com  
Tel: (978) 386-7959  
Fax: (978) 386-7123



Rush Broaching Services Available!

# Connecticut Tooling & Machining Association

P.O. Box 593 Windsor, CT 06095  
 Tel: 860-604-8963 Fax: 413-599-1323

If you have a question, or need more info, contact: [director@ct-ntma.org](mailto:director@ct-ntma.org)

**Membership Doesn't Cost...It Pays!**  
 NTMA - Business Solutions for Metalworking Manufacturers


## Qualified Tool and Gage Makers are Critical to Your Success!



Your manufacturing environment demands skilled tool and gage makers ready to take on every day challenges without delay.

- Does the need for precision tooling fixtures and gages have you scrambling to meet your customers requirements?
- Do you need a reliable, qualified tool room to manufacture your fixtures, tooling, and custom gages?

*We have the TEAM to help you!*

MADE IN AMERICA AT AN  COMPANY



Website: [www.siroistool.com](http://www.siroistool.com)  
 Phone: (860) 828-5327  
 Email: [info@siroistool.com](mailto:info@siroistool.com)



Website: [www.dowgage.com](http://www.dowgage.com)  
 Phone: (860) 828-2450  
 Email: [sales@dowgage.com](mailto:sales@dowgage.com)



Website: [www.naspringtool.com](http://www.naspringtool.com)  
 Phone: (860) 583-1693  
 Email: [info@naspringtool.com](mailto:info@naspringtool.com)

The Sirois Tool Companies are located at 169 White Oak Drive • Berlin, CT 06037



**Horst Engineering**  
 Precision Machining & Assembly

P 860.289.8209 F 860.289.2961

Aerospace • Medical • Industrial • Motorsports  
 East Hartford, CT

TURNING • SWISS SCREW MACHINING  
 MILLING • ASSEMBLY

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



**Thread Rolling Inc.**  
 Roll Threading & Centerless Grinding

P 860.528.1515 F 860.289.2961

ROLL THREADING • ROLL KNURLING  
 CENTERLESS GRINDING

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



**METAL STAMPINGS  
 PRECISION COINING  
 PROGRESSIVE DIES  
 LASER WELDING  
 ASSEMBLY  
 FINISHING**

A 'Can Do' Attitude Since 1912

PRECISION STAMPING & ASSEMBLY

PO Box 427  
 Durham, CT 06422

Tel: 860-349-1756

Fax: 860-349-3602

[info@hobsonmotzer.com](mailto:info@hobsonmotzer.com)  
[www.hobsonmotzer.com](http://www.hobsonmotzer.com)  
 ISO 9000:2000

PRECISION FORM GRINDING AND THREAD ROLLING SPECIALIST



[Unitedcenterlessgrinding.com](http://Unitedcenterlessgrinding.com)  
 (860) 289-2987



**UNITED  
 THREAD  
 ROLLING, LLC**  
[Unitedthreadrolling.com](http://Unitedthreadrolling.com)  
 (860) 290-9349

25 Rosenthal Street  
 East Hartford, CT 06108

fax: (860) 289-3142



## PRESS RELEASE

**QUALITY ENGINEERING SERVICES is pleased to announce the addition of our new Amera-Seiki VT1200 CNC Vertical Turning Lathe (VTL) with a maximum swing of 54 inches.**



This lathe features high torque drives with massive castings and extra heavy wide way systems to assure accurate and stable machining, including heavy duty transmissions which allow stock removal at high spindle speeds. This lathe was designed to provide a greater level of support to enhance accuracy and finish.

In addition to our present 3 and 5 axis CNC machining centers we continue to invest in the latest equipment and software to be able to maintain a high level of quality to satisfy our customer's tooling needs in a cost efficient and timely manner.

**Quality engineering Services, Inc.**, is an **ISO 9001 Certified** and **ITAR Registered** privately owned company founded in 1971. We specialize in the design and manufacture of fixtures, gauges, fabrications and cast urethane products for the aerospace, defense and commercial industries. We employ forty-five (45) skilled employees including eight (8) fulltime experienced tool designers.

Please contact us with your next machining project for a competitive quote. And check out our website at [www.qes1.com](http://www.qes1.com) Don Wildrick, VP Sales and Marketing, Quality Engineering Services,

## PRESS RELEASE

### Successful AS9100 & ISO9001 Audit

Posted on [October 14, 2016](#)

Horst Engineering and Thread Rolling Inc. had a successful AS9100 Revision C surveillance audit. Our system is also certified to ISO9001:2008.

The four-day event resulted in a recommendation that we continue with our registration.



Horst Engineering, Sterling Machine, and Thread Rolling Inc. have all had successful Quality Management System audits in 2016.

In 2017, we make the conversion to Revision D of the AS9100 standard, which is an aerospace variation of the newly revised ISO9001 2015 standard.



# Wire & Sinker EDM Services

- ⊗ 5 Axis Wire EDM
- ⊗ Orbiting Sinker EDM

Tel: 207-743-7273

Fax: 207-743-7269

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



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

Quality Tooling Solutions since 1992

PO Box 28

16 Aldrich Ave.

Norway, ME 04268

www.northeasttool.com

## PRESS RELEASE

Sturbridge Metallurgical Services, Inc. is announcing the latest changes in their status: Sturbridge Metallurgical Services Inc, of Sturbridge MA is a GE S-400 Approved Metallurgical Lab, supplier code T9417.

We are currently approved for the following testing services:

- ◆ AIXZ - Grain Size Evaluation E50TF133
- ◆ AI0A - Room Temperature Tensile
- ◆ AI0F - Instrumental Quantitative Analysis - Spark OES
- ◆ AI0L - Metallography (includes Alpha Case, Alloy Depletion, Decarb and Carburization, Grain Size, IGA/Oxidation, Nitriding, Microhardness)
- ◆ AI0M - Hardness Testing Including Microhardness
- ◆ AI0Q - Corrosion and Stress Corrosion
- ◆ AI0R - Oxidation Testing
- ◆ Taber Abrasion Testing D4060

We're in the process of adding additional services to our approval!

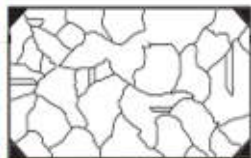
With an Eye on Quality



Certificate #3929.01



GE S-400 Approved Lab



**Sturbridge  
Metallurgical  
Services, Inc.**



info@smslabs.com | www.smslabs.com | 866.340.5288

8 Picker Rd, Sturbridge MA 01566

**MATERIAL TESTING**

Full Service Metallurgical Testing Lab



For Materials Testing



## DYNAMIC BALANCING



NEW ENGLAND  
SPINTECH



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

## Gateway Mini Ads

### THREAD ROLLING

#### East Coast Thread Rolling

Threading

SEMS

Assembly



Knurling

Forming

Phone 203-441-6944 Fax 203-879-1902

Over 35 years' experience

## HELP WANTED

### Lab Technician Wanted

Sturbridge MA company seeking  
Mid-Level Lab Technician.

Job Entails Precision Cutting,  
Sample Mounting, Sample Grinding/  
Polishing and Some Microscope  
Analysis. Must be able to stand  
for 6-8 hours per day.

Lab Experience Preferred. Email  
Resume to [resumes@smslabs.com](mailto:resumes@smslabs.com) –  
no calls please –  
agencies need not email.

## JOB SHOP FOR SALE

Lock, Stock, and Barrel!  
Bridgeport, CT area. Owner willing to stay on  
during transition. Call: 203-333-4369 Fax:  
203-334-8260 Email: [poplartool@att.net](mailto:poplartool@att.net)

## JOB SHOP

### SANDBERG MACHINE

**Your own maintenance department,  
with no cost until you need it!**

Large turning, boring, milling, welding,  
fabricating. We also have a large variety  
of CNC machines available.

Large or small, we can do it all!

401-568-1602

Check out our website

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

**"We now offer turning &  
threading on our 60" CNC VTL!"**

## WANTED

### OLD 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**

## SWISS TURNING OPEN TIME

- Open time for your next project
- Short Runs OK
- QC Certification, digital inspection
- AS-9100 / ITAR registered
- Full service job shop

### Straton Industries

180 Surf Avenue, Stratford, CT 06615

T: 203-375-4488 F: 203-381-9542

Email: [quotes@straton.com](mailto:quotes@straton.com)

Website: [www.straton.com](http://www.straton.com)

## WE NEED YOUR STORY

We'll pay you for  
your story! It's easy  
to do and it's 100%  
free.

[gatewaybill@yahoo.com](mailto:gatewaybill@yahoo.com)

## JOB SHOP FOR SALE

### Production Machine Shop

Mostly turning and secondary equipment  
in S/W New Hampshire. 5000 sq. ft.  
block building on 5 acres with 400 amp.  
208 volt phase service. Will consider  
selling business and real estate  
separately. Owner looking to retire. For  
further info please see Craigslist post ID:  
5758444452 or email  
[ehrlich.diane@gmail.com](mailto:ehrlich.diane@gmail.com)

## The Gateway Magazine

Bill Bryson, President

The Gateway 336 Governors Road, Milton, NH 03851

All rights reserved. Duplication of this magazine or parts thereof without written permission is prohibited.

This magazine is distributed at no charge to engineers, purchasing decision makers, business owners,  
advertisers and qualified personnel in manufacturing companies.

The cost of a subscription is FREE.

Spotlight feature articles, New Products and Literature announcements are published free of charge at the  
discretion of the publisher and with the availability of space. Contact us for details.

The Gateway reaches: 7500+ NE Companies 2500+ Job Shops, 25,000+ Readership

Tel or Fax: 603-755-9232 E-mail: [gatewaybill@yahoo.com](mailto:gatewaybill@yahoo.com)

## MINI AD RATES:

Single Column is 2.4"/Double Column is 4.8"/Triple Column is 7.3"  
\$35.00 PER COLUMN INCH.

You only pay for what you use, to closest 1/16".

(Ads running only 1 mo. priced at \$45.00 per in.)

HEADERS ARE SUPPLIED FREE

(Yellow background, Red Subway Font)

Email your info to The Gateway at [gatewaybill@yahoo.com](mailto:gatewaybill@yahoo.com)

Questions? call 603-755-9232

We lay out, quote price and email a draft copy to you approval  
before we will publish.

No extra charge for photos, graphics or ad layout.

5% discount on all prepaid ads.





**ACR** Division

17 Park Avenue  
Hudson, NH 03051  
(603)598-0891 Fax (603)598-0894

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

45 Francis Street  
Leominster, MA 01453  
(978)537-6064 Fax (978)537-9871  
Our NEW address above as of 7/1/2016

### Manufacturer's Distributor for:



- Rotary Screw**
- Single & Two Stage
  - Variable Speed - VSD
  - Oil Free
  - High & Low Pressure
  - Vacuum
  - Portables

- Air Dryers**
- Refrigerated
  - Twin Tower Desiccant

- Filtration**
- Oil Removing
  - Oil/Water Separator
  - Drains

Full Stock of Genuine Sullair Parts and Lubricants



- Reciprocating**
- Pressure & Splash
  - Climate Control Units
  - Oil Free



Contractor Compressors  
Sprinkler Compressors



High Pressure Systems



Hudson, NH – Northfield, NH  
Leominster, MA  
Toll-Free (800) 856-4046  
Tel. (603) 598-0891  
Fax: (603) 598-0894  
**24-HOUR  
EMERGENCY  
SERVICE**  
YOUR RELIABLE SOURCE  
FOR COMPRESSED AIR  
EQUIPMENT AND SERVICE



Safety Air Tool Accessories  
Air-Line Controls

### HITACHI Inspire the Next

- Oil Free Rotary & Scroll**
- Single & Two Stage
  - Variable Speed - VSD
  - Air Cooled/Water Cooled
- Pressure Vessels & Air Receivers**



Hose Reels



CRP  
Oil / Water  
Separators



Refrigerated Air Dryers  
Filters  
Desiccant Dryers



Air & Gas Filtration to 6000 psig  
Desiccant Dryers  
Oil/Water Separators

Services: Any Type of Compressor • Installation, System Piping  
Low Pressure and High Pressure Air Systems • Medical Air & Vacuum  
Maintenance Programs • Rental Units Available (Delivered & Installed) • Air Dryer Repair

Engineered Services: Complete System Design • In-Plant Air Surveys • Energy Audits • Leak Detection  
• Pressure, Flow & KW Monitoring

Web Site: [www.drgair.com](http://www.drgair.com) • Email: [don@drngair.com](mailto:don@drngair.com)

**and of course... SERVICE SERVICE SERVICE!!**

## SPECIAL SALE



**Heat Treatment Master Control Manual** focuses on heat-treating to ASM, SME, and AISI standards. It has been created for use in student education, as well as to guide professionals who have been heat treating their entire lives.

What is different with this manual is that it goes beyond dealing with just the heat side of the treatment process. It continues the process by using cryogenics to produce a 99.9 to 100% transformation of the finest, best grain structure possible. This manual tells exactly how to get the real cost savings and best possible life.

If you desire to produce the best heat treated metal possible and gain an understanding of what goes on in the heat-treating process, this manual will do that.

Written in everyday easy to grasp language, it will serve as a training manual from day one in a classroom, then serve as a day-to-day reference for a lifetime.

This full-color, illustrated manual zeros in on the popular tool steels, alloy steels, heat-treatable stainless steels, case hardening steels, and more. It deals with these metals with fully illustrated processing recipes.

Written for toolmakers, engineers, heat-treaters, procurement, management personnel, and anyone else who is involved in the metals industry.

Page size 7.75" x 10.625" 338 pages, spiral soft cover to lay flat open for quick, easy reference.

*Whether you are purchasing heat treatment, or doing in-house processing, please remember this! The hardness reading of any piece of steel is ONLY an indication of hardness! It does not reveal how well the heat treat process was performed, nor does it reveal how terrible the wear resistance or life of the part might be. Good heat treatment is all about creating good grain structure. You don't need to be a metallurgist to understand the process any more than you don't need to be a chef to properly hard boil an egg.*

TO ORDER THIS BOOK AND UNDERSTAND HEAT TREATMENT IN PLAIN EVERYDAY ENGLISH...

Send check or money order for \$75 to The Gateway. Free S&H in the USA.  
Got a heat treat problem? Need some ideas of what might be wrong, call the author at 603-755-9232.



# HEAT TREATMENT

## PROCESSES OFFERED    ATMOSPHERES

- ◆ Annealing
- ◆ Hardening
- ◆ Austempering
- ◆ Normalizing
- ◆ Aging
- ◆ Bright Hardening
- ◆ Cryogenic Processing
- ◆ Precipitation Harden
- ◆ Brazing
- ◆ Carburizing
- ◆ Case Hardening
- ◆ Bright Annealing
- ◆ Stress Relieving

- ◆ Vacuum
- ◆ Nitrogen
- ◆ Oil
- ◆ Water
- ◆ Salt



Metallurgical Lab Testing Available

## Smith & Wesson Specialty Services

2100 Roosevelt Ave. Springfield, MA 01104  
www.smith-wesson.com

Tel: 413-747-3297  
Fax: 413-747-3423

Also offering: Forgings, Plating, and Finish-

lflatley@smith-wesson.com

## CNC Turn/Milling



## Milling



## WaterJet Cutting



## HydroCam Corporation

248 Sheep Davis Road - Concord, NH 03301  
Ph: (603) 224-4872 - Fax: (603) 224-5927  
E-Mail: Info@hydrocam.com www.hydrocam.com

# Non-Metallic Die Cutting & Stamping



The Buswell Manufacturing Company is a precision die cutter of non-metallic material, for seals gaskets, diaphragms and washers, used by the automotive, marine, industrial & bearing industries.

Since 1945, we have specialized in die cut bearing seals made from rubber coated fabric, Teflon® and Teflon® coated glass fabric. We also perform in house tool & die making.



229 Merriam Street • Bridgeport, CT 06604-2915

Phone: 800-682-5207 • Fax: 203-368-2374

E-mail: Buswell.mfg@snet.net

ISO/TS 16949: 2002 Registered

## 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

email: sales@rsredco.com





# JCB



Performance Machine, LLC  
Concord, NH  
www.jcbperformance.com  
(603) 415-0110

**CNC Machining of Stainless Steel**  
303, 304, 316, 321, 347  
17-4PH H1150, HH1150, H900  
Nitronic 50 & N50 HS, Nitronic 60

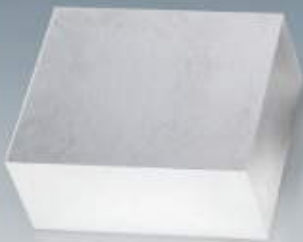
**CNC TURNING MULTI-AXIS MACHINING**



## Machine-Ready Solutions™

Rethink Your Workflow – Reduce Cycle Time

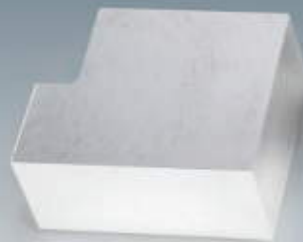
SEE US AT  
IMTS2016  
BOOTH  
#W-1279



**Machine-Ready Blanks**  
Made to order from one to thousands, close tolerance and ready to load directly into your CNC machining center.



**Machine-Ready Dovetail Blanks**  
Dovetail Blanks include a precision dovetail to match your brand and model of workholding fixture.



**Machine-Ready Material Prep**  
Squaring, flattening and milling, including adding features and removing large amounts of material—your stock or ours.



**Finish-Machined Components**  
Complete-to-print finish components, including processing, sub-assembly and managed inventory.

## Machine-Ready is Lean-Ready

Being Machine-Ready lets you get right to the high value process of finish-machining, by eliminating material prep and other time consuming processes. Choose the Machine-Ready Solution that best supports your busy shop and start increasing throughput, now.



Call us to discuss your next production job.  
800-234-5613 • www.tciprecision.com

Burnā Shave

His bristle sprouts with

Until she Creamed

He had his doubts

That she could cook

This road sign posted in 1949