

Purchasing's Gateway to New Sources

ROUTING



The Gateway

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

SUBSCRIPTIONS: FREE JUNE 2016 Issue No. 204



Buyer _____
Mfg Engrg _____
Engrg Mgr _____
Mat Mgr _____
Production _____
Marketing _____
Other _____
Return to _____



Marena Industries Inc.

East Hartford, Connecticut

New Gateway E-mail address: gatewaybill@yahoo.com

Address changes?

Please send changes
gatewaybill@yahoo.com

The Gateway
336 Governors Road
Milton, NH 03851



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

www.hydroformingmanufacturing.com

MuShield®

The Mushield Company • 9 Ricker Ave., Londonderry, NH 03053
603-666-4433 • info@mushield.com

Ask our engineers a question or request a Design Guide or Sample Kits at 888-669-3539 or www.hydroformingmanufacturing.com or www.MuShield.com.

Ventilation Solutions for HOT FACILITIES COOLER SHOPS ARE HEALTHIER AND MORE PRODUCTIVE

Quietaire fabric ducted fresh air make up



High Velocity fresh air intake systems



VentilationUSA

800-622-8078 www.ventusa.com

HYDE™

Industrial Blade Solutions

Blades and Knives

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

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!



Vortex Ilc

Defining the Future of Sheet Metal Fabrication

Phone: 978-535-8721

Fax your prints to us today 978-535-5255

www.vortexmetal.com email: 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 can only use the Teflon® mark as licensed by DuPont with the Teflon® mark. DuPont and other trademarks are the property of their respective owners.



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 Fluorescence 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

WELDING, MACHINING & FABRICATION

for
CRITICAL APPLICATIONS

NADCAP approved for Fusion Welding, Resistance Welding and Brazing

Not only can we weld your parts, but we can make them complete with our full machining, CNC, and fabrication departments

Approved by many top aerospace manufacturers – a partial list includes Pratt & Whitney, Sikorsky, Hamilton Sundstrand, Boeing, General Dynamics, Bell Helicopter

LYNN WELDING

Welding • Machining • Fabrication

Multi-Axis CNC Machining to tight tolerances

Resistance Welding

Fusion Welding for tight tolerance assemblies

Torch Brazing

860.667.4400
75 Rockwell Rd., Newington, CT 06111

Visit **LynnWelding.com** to discuss your project



MARENA INDUSTRIES, INC.

East Hartford, CT

Marena Industries was featured in a story here in The Gateway two months ago. That story focused on the job shop side of Marena Industries. This story focuses on the equipment and supplies side of Ted Marena's business.

Founded in 1960 by Ted Marena, Marena Industries began in the basement of a multi-family tenement house in Hartford, CT. Ted saw a need and that vision led him to produce the best carbide tipped work rest blades for centerless grinders in the world.



Metal cutting blades manufactured to OEM specifications are produced daily. In some cases, Marena can failure correct problems with improvement suggestions.

Marena Industries manufactures all types of work rest blades, metal recycling blades, shear blades, step blades, press break blades and also cams. They have a catalog, titled "Centerless Grinder Workrest Blades" with thousands of standard and special blades which are available in ceramic, dense cast iron, high speed steel, carbide, bronze, brass and The Forever Blade made with P.C.D. diamond. Re-tipping and re-grinding services also offered.



This lathe was rebuilt by Marena Industries from top to bottom and is ready to ship back to the customer.

However, reconditioning all types of metal working machinery as well as upgrading equipment with more current technology is another facet of Marena Industries business.



*Fenix MB-75-675 x 505 Grinder.
This unique design by Fenix is a real cost saver for shops needing a great grinder.*

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





Waterjet USA



Stebol Similar to Blanchard

A new agreement was recently completed with a new precision grinder manufacturing company called Fenix. Fenix is comprised of former Favretto Engineers which are no longer directly affiliated with Favretto, but have the expertise to rebuild new grinders, based on the frames of existing Favretto grinders.

Having previously worked at the Favretto factory, they have complete knowledge of the Favretto systems.

Their rebuilt grinders are significantly less expensive than a comparable new Favretto, but still has all new components and controls.

Further details can be found at <http://marenaind.com/fenixfavrettogrinders.html>. Marena Industries also offers replacement parts and service for older Favretto grinders. Find more information at: <http://www.marenaind.com/>

favrettopartsservice.html

Marena Industries represents several equipment manufactures with grinding, machining, waterjet and other machine tool needs. Here are a few of their principle lines:

- **Celoria High Speed CNC**
- **Fajima 6 axis machining centers**
- **Fortune Pacific CNC Vertical Lathes**
- **Fukuno CNC Lathes**
- **HONERight Dual Column Surface Grinders**
- **Kingfisher Vertical Lathes**
- **MAS Srl Vertical Grinders and Honing Equipment**
- **STEBOL Grinders - Similar to Blanchard**
- **STEBOL Grinders - Similar to Mattison**
- **VMS Grinders**
- **Waterjet USA up to 5axis cutting**



Kingfisher vertical lathe.



Fortune Pacific vertical lathe.



Stebol Similar to Mattison



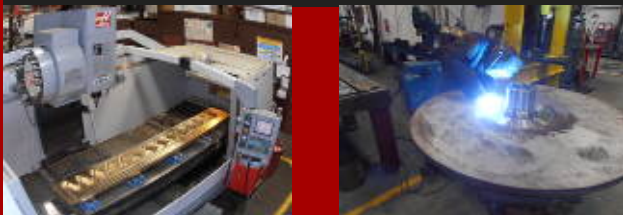
HONERight surface grinders.

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

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

PSI
Plastic Supply, Inc.
PLASTIC SUPPLY INC.

8 Liberty Drive Londonderry, NH
800-752-7759

sales@plasticsupply.com

Visa or MC accepted Quick Turnaround



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

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...

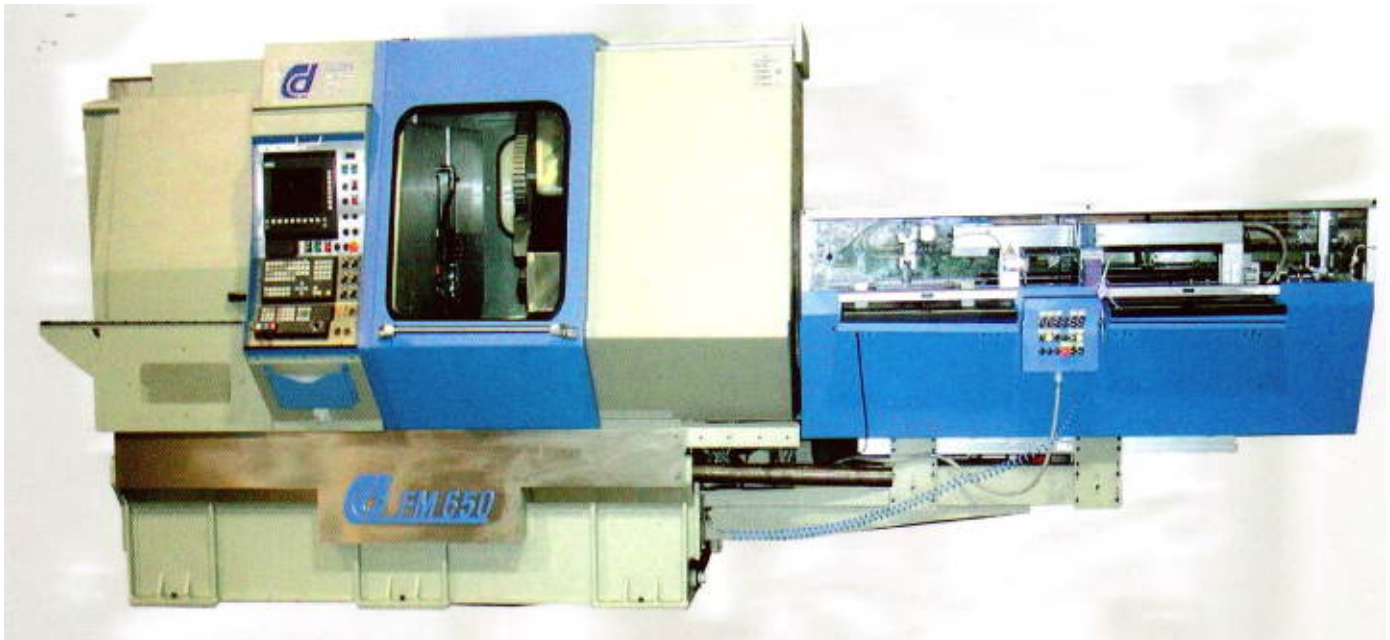
1-800-969-3437

Visit us at www.sharplesdie.com

SHARPLES
W.R. Sharples Company, Inc.

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





Celoria CNC high speed lathe.

Marena Industries has long been in the business of selling and manufacturing products using Tungsten Carbide strips. Back in the mid 70s, they designed a machine that allows them to create Tungsten Carbide strips in lengths up to 200". As far as they know, no other US manufacturer can offer strips in lengths anywhere close to this. There are many special applications that may require lengths longer than 36", which is the maximum most manufacturers offer. This allows Marena Industries the ability to offer a solution for these special applications.

Currently, Tungsten Carbide can be manufactured in lengths of 12", 18", 27" or any custom length, on up to 200". Thicknesses are available from 1/8" up to 1/4" and widths up to 3/4". Depending on the applications, carbide is available in C10, C2 and C6 grades.

Tungsten carbide inventory is available in some standard widths, lengths and thicknesses, but provide them with your specific requirements and carbide can be manufactured to meet your needs.

Ted added a few last words about used equipment: *We are pleased to provide quality new, used and remanufactured machinery to the manufacturing industry, including grinders, lathes, CNC, machining centers, milling machines, tooling, forklifts, grinding wheels, etc... See our complete equipment offering on www.machinerysavings.com.*

Our used machine inventory can change often, so feel free to call us if you are looking for a certain type or brand. We might have the exact machine you are looking for in our inventory, but it is not yet listed on our online site.

Continued on page 11



VNS Grinders



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** 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**



- 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)**



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**



Italian made Fukuno CNC Lathe



We believe when you're shopping for a new or used machine you shouldn't be bombarded with multiple sales calls from pushy salesmen. Let us know how and when you want to be contacted when we find the machine or function you require.

With our no-hassle approach to sales, think of us as your partner working for you. Our machinery sales associates are here to assist you."



*Tedarena, President
and Owner.*



Tel: 860-528-9011

Fax: 860-528-3995

E-mail: sales@marenaind.com

Web: www.marenaind.com

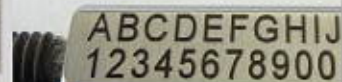
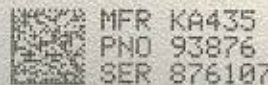


AFFORDABLE CONTRACT MARKING SERVICES

Specializing in marking and verification per DoD UID and Aerospace specifications

For more than 25 years, DAPRA has been a leader in direct part marking and traceability solutions for major manufacturers and organizations in the aerospace, automotive, oil and gas, medical and defense industries.

You can now leverage our extensive experience for your unique requirements as we offer contract dot peen and laser marking services at our Connecticut headquarters. We can mark to specifications for many organizations and major manufacturers, including General Electric, Pratt & Whitney, SAE Aerospace, Rolls Royce and the Department of Defense.



DAPRA contract marking solutions can provide permanent serialization, date codes, lot codes, text, logos, graphics and Data Matrix codes – per your requirements!

DAPRA®

Contact us today to find out if contract marking is a good fit for your production processes!

www.DapraMarking.com ♦ (800) 442-6275



**The Leader in Coating
Industrial, Medical, and
Aerospace Components.**

**IF YOU'VE SEEN A
COATED DEVICE
YOU'VE PROBABLY SEEN OUR WORK**



51 Parmenter Road, Hudson, MA 01749 | (800) 258-0110 | www.boydcoatings.com/GW



Specialty Indexable Cutting Tools Designed & Manufactured

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



Made in
the USA
Since 1984

- 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.



Available through leading distributors and online at www.cuttingtooltech.com

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



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

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

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



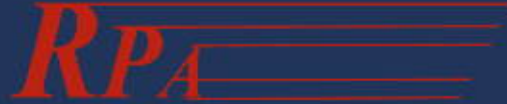
Made in the U.S.A.

Industrial Air Filtration

Ketcham & Company, Inc.
www.ketchaminc.com
203-322-6667



PRECISION FINISHING



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

BEAD BLASTING

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

www.rpabrasives.com
 ISO 9001:2008 Certified



METAL FABRICATION SOFTWARE METAL FINISHING SOFTWARE

*Affordable Shop Management Software
 for Job Shops, Metal Fabricators and Metal Finishers*

- ◆ Job Process Control
- ◆ Barcode Tracking
- ◆ Labor Tracking
- ◆ Job Costing
- ◆ Quotation and Estimating
- ◆ Certificate of Compliance
- ◆ NADCAP ISO Compliance
- ◆ Accounting with optional Quickbooks/Peachtree/Dynamics link



learn more at: www.compexsoftware.com

30 day free trial packages. New England based with local support.

With over 15 years of Proven Results

compex
 software

39 Stafford Street Worcester, MA 01603

Tel: 508-754-4085

CNC MACHINING

We are your ONE-STOP, ONE ORDER ,
 CUSTOMER SATISFACTION experience.



ISO 9001:2008
 Compliant

Integrating our years of manufacturing know-how with
 the latest technologies, into your designs with QUALITY.

Machined Integrations, LLC

-integrating our expertise into your designs

PO Box 396 3 Brookfield Rd Merrimack, NH 03054

Tel: 603-420-8871 Fax: 603-420-8879

www.machinedintegrations.com

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

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



Quality Turned Machined Parts New Hampshire Machine Products, Inc.

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

J-1276A



J-1219A

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

E-Mail: 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
- Shot Peen
- Adhesive Bonding
- Passivation
- Non-Destructive Testing
- Pressure Test
- Dry Film Lubrication
- Repair Service
- Magnesium Coatings

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

<http://ptiindustries.com>

PRESS RELEASE

Sustainable Manufacturing Forum

As part of Earth Day efforts, Horst Engineering participated in a Sustainable Manufacturing Forum hosted by Pratt & Whitney and the CBIA. The event, held at the Pratt & Whitney hangar at Rentschler Field, drew manufacturers from all over Connecticut and western Massachusetts.

Themes discussed by the speakers and panelists included energy efficiency, recycling, and waste mitigation. The Horst Engineering Family of Companies are proud of its sustainable manufacturing efforts and has several new projects slated for 2016.



P 860.289.8209 F 860.289.2961



Sterling Sintered Technologies, Inc



High Quality PM Parts at Very Competitive Prices

ISO9001-2008 & ITAR Registered

Sterling Sintered Technologies, Inc,
249 Rockwell St Winsted, CT 06098

sales@sterlingsintered.com

860-379-2753

www.sterlingsintered.com

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

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

251 Munson Road
Wolcott, CT 06716-0070

Contact: David Fusco d.fusco@devonp.com

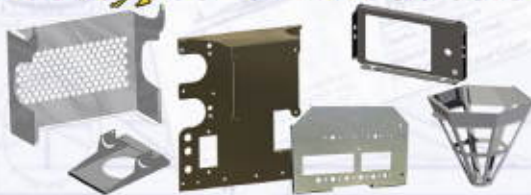
Precision Sheet Metal Fabrication

- ∞ 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 E-mail: sales@howardproducts.biz

Attract and Retain Talent by Providing a Safer and Cleaner Workspace



Solutions

- ◆ CNC Machining Mist & Smoke
- ◆ Welding Fumes
- ◆ Grinding Dust
- ◆ Plasma and Laser Smoke and Dust
- ◆ Odor Control
- ◆ CNC Fire Suppression
- ◆ Pneumatic Parts Blow Off Box

*Air-Filtration Systems provides DESIGN, TURNKEY
INSTALLATION and ONSITE SERVICE!*

Benefits

- \$ Reduce employee exposure to harmful contaminants
- \$ Energy Efficient—Payback in energy savings
- \$ No loss of valuable floor space
- \$ Custom mounting brackets and paint color

5 Carpenter Street Pawtucket, RI 02860

877-410-1887

email: matthew@airfiltrationsystems.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

Complete Cutter Regrinding Service

High Precision Custom Cutting Tools & Complex Wire EDM Service

*Experts in developing
simple to complex
mission-critical,
multifunctional tools
that get your
project done right...
on time...
no headaches*



**Accu-Grind
Cutter Service, Inc**
10 Allread Drive
Terryville, CT 06786
860-582-5088

www.accugrind.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



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

Quality Tooling Solutions since 1992



Marko Duffy is a 35 year finishing industry veteran. With expertise & experience unmatched in the industry. Let Marathon Mfg Solutions bring your company plating, anodizing, coating, parts washing solutions!

We offer you the best!

- Parts Washers - Safe and effective parts washing solutions - All alloys and materials
- Acetone/Alcohol Replacement Chemistry that is safer, cheaper & healthier
- Plating/Anodizing Lines large and small designed and built to your requirements

Masking Specialists! If you need Plating/Anodizing/Coating Masking Materials & Custom Solutions, we have it!

Follow us on **LinkedIn**

- Metal Finishing Chemistry
- Metal Finishing Equipment
- Paint and Powder Coating Equipment and supplies
- Blasting equipment for every application

125 Glenn St. Lawrence, MA 01843 • 508.904.8899 • Markod@marathon-sales.com

GRINDING SPECIALIST

- ▣ ID GRINDING
- ▣ OD GRINDING
- ▣ SURFACE GRINDING
- ▣ HONING
- ▣ CNC CYLINDRICAL

- ◆ Quality
- ◆ Any Quantity
- ◆ Price
- ◆ Pick up & Delivery
- ◆ Same Day Quotes

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

QUANTUM
precision group

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



www.qpgllc.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!



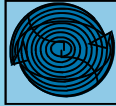
- Precision Machining -
 - Toolmaking -
 - Jig Grinding Service -

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

Meaningful Quotes

"The Declaration of Independence, the words that launched our nation -- 1,300 words.

The Bible, the word of God -- 773,000 words.

The Tax Code, the words of politicians -- 7,000,000 words -- and growing!"

-- Steve Forbes

[Malcolm Stevenson Forbes Jr.] (1947-)

Publisher of Forbes Magazine, US Presidential candidate in 1996 & 2000



Exceeding Customer Expectations For Over 55 Years

- ✓ Significantly faster, smoother, and quieter cutting and milling
- ✓ Submicron tolerances for medical and aerospace manufacturing
- ✓ Vast investment in the latest tool-making technology provides fast 99.65% on-time delivery
- ✓ 11 unique coatings improve resistance to wear, shock, and oxidation, and provide hot-hardness, high-speed, and anti-friction characteristics



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

NEED METAL FABRICATION SOLUTIONS?



**Creating quality aluminum,
stainless steel and carbon steel parts
and products for manufacturers.**



**UNITED METAL
SOLUTIONS**
A DIVISION OF UNITED STEEL

Top Quality
Superior Service
Fast Turn-around

164 School Street,
East Hartford, CT 06108

860.610.4026
sales@unitedmetalsolutions.com

www.UnitedMetalSolutions.com
Affirmative Action/Equal Opportunity Employer

Connecticut Tooling & Machining Association

CTMA

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:

Cindy Scoville at: director@ct-ntma.org

Membership Doesn't Cost....It Pays!

NTMA - Business Solutions for Metalworking Manufacturers



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



Thread Rolling Inc.
Roll Threading & Centerless Grinding

P 860.528.1515 F 860.289.2961

ROLL THREADING • ROLL KNURLING
CENTERLESS GRINDING

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
www.hobsonmotzer.com
ISO 9000:2000

PRECISION FORM GRINDING AND THREAD ROLLING SPECIALIST



**UNITED CENTERLESS
GRINDING CO., INC.**
Serving New England Since 1980

Unitedcenterlessgrinding.com
(860) 289-2987



**UNITED
THREAD
ROLLING, LLC**

Unitedthreadrolling.com
(860) 290-9349

25 Rosenthal Street
East Hartford, CT 06108

fax: (860) 289-3142

Connecticut Tooling & Machining Association


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
Phone: (860) 828-5327
Email: info@siroistool.com



Website: www.dowgage.com
Phone: (860) 828-2450
Email: sales@dowgage.com



Website: www.naspringtool.com
Phone: (860) 583-1693
Email: info@naspringtool.com

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



PERPLEXING QUESTION OF THE DAY

Of all the possible utensils that could have been invented to eat rice with... how did 2 sticks win out!?

PRESS RELEASE

We apologize if you tried to contact us by e-mail recently and received a notification that our Inbox is too full. Apparently it was, but even emptying it fails to work. So below is an alternative e-address that we have set up.

gatewaybill@yahoo.com



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

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

Gateway Mini Ads

THREAD ROLLING

East Coast Thread Rolling

Threading

SEMS

Assembly

Phone 800-875-4019 Fax 203-879-1902

Over 35 years' experience

Knurling

Forming



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 –
no calls please –
agencies need not email.

WANTED

OLD FORK LIFTS

***** WANTED *****



Old Forklifts for Parts.
Gas or Electric, Large or Small
Running or Not,
Price Must Be Reasonable
Call Walt (860) 508-9164
Will Pick Up and Pay Cash.

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

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

MACHINE SHOP FOR SALE

Niche Product. National customer
base and growing. Repeat orders.
\$1,000,000.+ 2015 sales with great
potential for growth. Business has
potential to double in sales Great
Western Ma. location.

Email: gatewaybill@yahoo.com
and owner will contact you.

Uncle Willy's Funny Bone Gateway Humor

- "You cannot bring about prosperity by discouraging thrift.
- You cannot help small men by tearing down big men.
- You cannot strengthen the weak by weakening the strong.
- You cannot lift the wage-earner by pulling down the wage-payer.
- You cannot help the poor man by destroying the rich.
- You cannot keep out of trouble by spending more than your income.
- You cannot further the brotherhood of man by inciting class hatred.
- You cannot establish security on borrowed money.
- You cannot build character and courage by taking away men's initiative and independence.
- You cannot help men permanently by doing for them what they could and should do for themselves."

William Boetcker (1873-1962) German-born Presbyterian clergyman

FOUNDRY

Brass & Bronze

Investment Castings Foundry

Owner wishes to retire. Established cus-
tomers. **Profitable**. Producing custom
hardware, classic auto / boat parts and
more.

With buildings or without in beautiful
part of N.E. Lots of options.
Email: gatewaybill@yahoo.com. Owner
will contact you.

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.

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

Tel or Fax: 603-755-9232 E-mail: 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 bg. Red Subway Font)

Email your info to The Gateway at bill@buyersgateway.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.

D.R. GUILBEAULT

AIR COMPRESSOR U.C.

(603)-598-0891
17 Park Ave, Hudson, NH 03051

Serving New England
Since 1986

ACR

AIR COMPRESSOR REBUILDERS, LLC
DIVISION OF D.R. GUILBEAULT
488 MAIN STREET
LEOMINSTER, MA 01453
TEL: (978) 537-6064
Serving New England since 1973

Manufacturer's Distributor for:

SULLAIR Industrial

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

CHAMPION™

Reciprocating

- Pressure & Splash
- Climate Control Units
- Oil Free

Emglo COMPRESSORS

Contractor Compressors
Sprinkler Compressors

BAUER 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

REELCRAFT

Hose Reels



CRP
Oil / Water
Separators

ZEKS

COMPRESSED AIR SOLUTIONS

Refrigerated Air Dryers
Filters
Desiccant Dryers



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



Heat Treatment 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. *The hardness reading of a steel is strictly an indication of hardness. It doesn't reveal how well the heat treat process was performed, nor does it reveal how terrible the wear resistance might be because the grain structure condition should always be the real goal.* 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 metals.

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

TO ORDER

Call: 877-751-5052

Fax: 708-534-7803

Web: www.hanserpublications.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
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

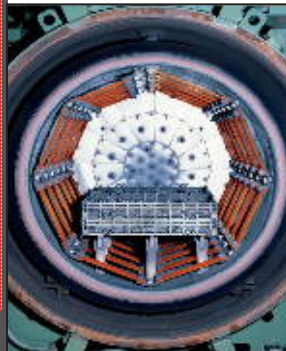
www.pauwaycorp.com

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 Finishing

lflatley@smith-wesson.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

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

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



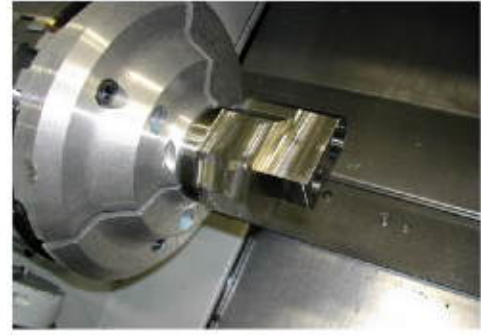
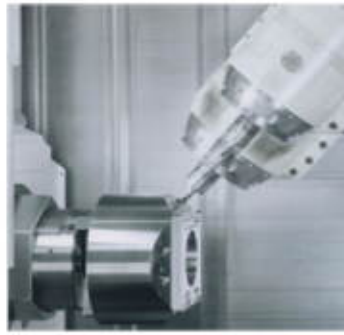
CNC Machining of Stainless Steel

303, 304, 316, 321, 347

17-4PH H1150, HH1150, H900

Nitronic 50 & N50 HS, Nitronic 60

CNC TURNING MULTI-AXIS MACHINING



Burna Shave

Can shave again

All you cowards

You're safe, men

Leap year's over

This road sign posted in 1949

Machine-Ready Solutions™

Rethink Your Workflow—Reduce Cycle Time



Machine-Ready Blanks
close tolerance, ready to load directly into your CNC machining center. Custom, standard and Dovetail-Ready options available



Machine-Ready Material Prep
squaring, flattening and milling, including adding features and removing large amounts of material — Your Stock or Ours



Machine-Ready CNC Roughing
solid or cast components, including milling, hogging, turning and more — Your Stock or Ours



Finish Machined Components
complete-to-print machining, including processing and sub-assembly

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