

EUGENE 5160 CLUB ~ JULY 2021

<https://www.facebook.com/5160ClubTheGroup>

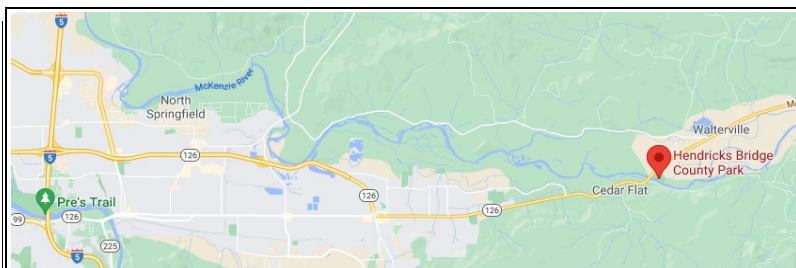
newsletter archive: <http://www.elementalforge.com/5160Club/>



5160 CLUB MEETING THURSDAY, JULY 1ST – 6PM HENDRICKS BRIDGE PARK

We will be meeting in the open-air shelter at Hendricks Bridge Park – East of Springfield.

Lane County is currently rated Low risk, and Oregon is going off COVID restrictions at the end of June. Unfortunately, Lane County deaths have ticked up slightly, even as new cases have kept going down. We are meeting outdoors, and everyone who wants to be vaccinated (like me), should be fully vaccinated by now. I will **not** be asking for vaccination cards, or policing mask wearing. Use your own judgment as to whether you want to attend or not.



From I-5, take Hwy 126 East. At the stoplight on Main Street in Springfield, take a left to stay on 126. From that point it's around 5 miles to the park. Just over the bridge across the McKenzie River, take a right into the park. We will probably be in the shelter (the shelter is first-come-first-serve). See you there!

And remember Facebook “5160 Club – The Group”: <https://www.facebook.com/groups/5160ClubTheGroup/> is a place to share your questions, insights, or photos.



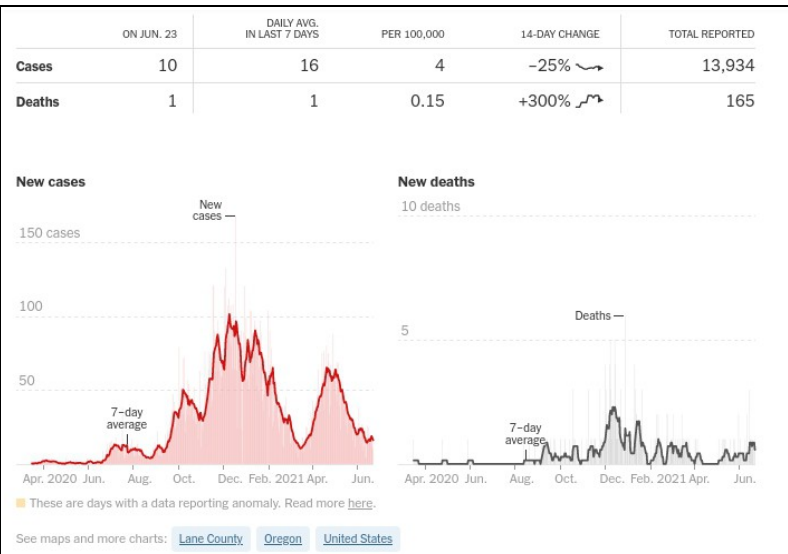
The Eugene 5160 Club newsletter is for information only. Do not try anything mentioned here without hands-on training. Neither the folks mentioned in the newsletters nor the newsletter scribe are responsible for your actions or liable for any repercussions. If you are good with that: read on!



JUNE ZOOM MEETING

Lynn Moore started the meeting. A friend of his lost his house in the fires last Summer. Lynn has been refurbishing a knife that was in a safe when the house burned down.

It's a Schrade knife. “The handle was pretty much gone. The bolster was there, I think it's nickle silver.” Lynn has put a snakewood handle on it. He's got it hand-sanded but not polished. The forward pin is aluminum tube filled with a #8 copper rod. The thong hole is 1/4” brass tubing.



Parking Fee: There is a parking fee for Hendricks Bridge Park (aka Hendricks Bridge Wayside). A one-time day pass of \$5 can be purchased at the park. An annual parking pass for all Lane Co. parks can be purchased at Bi-Mart, Cabela's, REI, and a scattering of other stores. The annual cost is \$40, or \$20 for folks 62+ and for disabled veterans.



Lynn will get a sheath made, and get the knife back to him pretty soon.

His friend was traveling when the fire came through. His friend's wife and father just barely had time to evacuate – with no time to pack anything. “By the time they heard about it, the fire was already coming up the mountain, right at 'em.”

There was some speculation about the tempering effect of the fire. “He had silver coins that melted” Lynn noted. *Your scribe looks up the melting point of silver coins and comes up with 1,615°f.*

Brock was tagged next. He's been taking a break from culinary cutlery, and making some liner lock folders. Erik Land has been showing him how he makes his liner locks. Brock doesn't have fancy equipment, so getting the tolerances right takes time.

“I don't know how serious I'm going to get” about making a lot of liner locks.

On the other hand, Brock feels good about his slip-joint pocket knives. He's getting good feedback from customers about them.

He's getting knives ready for Blade Show West, in Long Beach, CA, October 8 & 9. Those tables go for \$400, but Brock mentioned a show outside of Kansas City with tables going for \$625. So that makes the Blade Show West look good. He's wanting to get known, and shows are a way to do that.

Edward Davis showed the Sheffield branded folder that his will be re-handling. He batonned an old kitchen knife through the pins on one side, to open

the knife up. He will drive the pins out. That will be safer than trying to drill them out without damaging the bolsters.



Having the folder opened up to full view is kind of cool. Edward may open up another folder and leave it open as a demonstration knife of how this type of folder works.



Here's the sacrificial knife that Edward uses to cut through the folder pins. It's an Ontario/Old Hickory kitchen knife. It's thin enough that he can get it between the bolster and the blade, then baton it through the pins.



Edward noted that part of what makes the Buck 110 knives so good, and hefty, is that the bolsters and liners are cast as a single part.



Back to the Sheffield knife, Edward will polish the inside of the liner and engrave his name there. He also plans to do file-work on the spine of the liners, and use a grinding stone on a Dremel for more “file-work” on the lock-bar.

Brock noted that the diamond file set from Harbor Freight work to cut patterns in hardened steel. He also noted that you need to plan ahead for a little more material loss due to the need to sand out the diamond scratch marks. Wrap the sandpaper around the shaped file that was used to make the file-work (round, triangular, etc.).



There was quite a discussion about getting down to zero tolerance between the blade spine and handle at all positions of the folding knife, and commercial versus custom knifemaking standards.



Brock said that he is working on his first folder without a half-stop. So it's got a continuous curve on the back versus the square-ish back of a blade that does a half-stop. And he spends time getting the geometry right so that the blade snaps open and snaps shut.

He's also working on a gunstock-inspired handle shape. In response to a question, Brock said that he almost always makes his handle scales as two

separate pieces, rather than shaping and drilling one piece of wood and then band-sawing it into two scales. “You have to be just as careful when you're doing it whether you do it individually...” as doing it in a single block.



Frank Bobbio dropped into the meeting, just to say “Hi!” He was between hanging LED shop lights and grabbing dinner.

Blair Goodman had just gotten back from Hawaii (poor guy). He was pondering using Kast-o-Lite to make a new forge, but was put off by the large size aggregate he's seen in forges made with it. If you have any insight on this, let Blair know! Mizzou would be another option.



It will be good to see folks in person. And I'll be able to get better photos! Jeez, there's a story. Google pushed out an “upgrade” to my Pixel 2 phone back in December that killed the phone's forward facing camera. So I'll be using my full sized camera. Right, and I need to remember to bring along my “stenographer,” the little video camera. And maybe a side table to take the photos on. And make sure both camera batteries are charged. Oh yeah, and pick up a Lane Co Park Pass.

Keep well, work safe, and see you on the 1st!

Your Scribe ~ Michael Kemp



WEBSITE LINKS

5160 CLUB

Check out Facebook “5160 Club – The Group”:
<https://www.facebook.com/groups/5160ClubTheGroup/>
as a place to share your questions, insights, and photos.

5160 Club Newsletters are archived at:
<http://www.elementalforge.com/5160Club/>

OREGON KNIFE COLLECTORS ASSOCIATION (OKCA)

The OKCA is putting out their newsletter, but the monthly dinner meetings and the knife shows are COVID canceled for the time being. We are all hoping that their big knife show in April might happen in 2022 – sign up for their newsletter to stay in the loop:

<http://www.oregonknifeclub.org/index.html>

Go to the “Knewslettter” link and scan a recent newsletter for a membership form and contact info.

FORUMS

Lambowie – Check out this new on-line marketplace. It's billed as a low-overhead alternative to eBay for forged knives, swords, etc. as well as bladesmithing equipment and materials. If you have feedback on this site – let me know!

<https://lambowie.com>

Bladesmith's Forum aka Don Fogg Forum
<http://www.bladesmithsforum.com/>

Knifedogs Forum (USA Knifemaker)
<https://knifedogs.com/>

American Bladesmith Society
<http://www.americanbladesmith.com/ipboard/>

Usual Suspects Network
<http://www.usualsuspect.net/forums/forum.php>

Blade Forums
<http://www.bladeforums.com/>

Hype-Free Blades
<http://www.hypefreeblades.com/forum>

Peter Newman of Bent River Forge/Farrier Supplies has a closed Facebook group: Blacksmiths of Oregon
<https://www.facebook.com/groups/blacksmithsofOregon>

REFERENCES

Wayne Goddard's books are available at Amazon:
<http://www.amazon.com/Wayne-Goddard/e/B001JS9M10>
And you can email the Goddards directly for his DVD at
Sg2goddard@comcast.net

Most of the companies in the “Knife Maker General” links (below) have a section for how-to books and DVDs.

Verhoeven's Metallurgy For Bladesmiths PDF – this is a very deep dive, not an introduction. I no longer see the original free PDF – but here's the updated book on Amazon:

<http://www.amazon.com/Steel-Metallurgy-Non-Metallurgist-J-Verhoeven/dp/0871708582>

ZKKnives – Knife steel composition/comparison/etc.
<http://zknives.com/knives/steels>

Kevin Cashen's Bladesmithing Info
<http://www.cashenblades.com/info.html>

Knife Steel Nerds – a metallurgist's blog on the technical details of steel
<https://knifesteelnerds.com>

Tempil Basic Guide to Ferrous Metallurgy
[http://es.tempil.com/assets/5/31/Basic_guide_to_ferrous_metallurgy_\(2\).pdf](http://es.tempil.com/assets/5/31/Basic_guide_to_ferrous_metallurgy_(2).pdf)

From the Heat Treating Society of the ASM – the Heat Treater's Guide Companion for Android devices.

<https://play.google.com/store/apps/details?id=com.pfiks.mobile.heattreaters&hl=en>

My own “Knife Info” has musings and cheat sheet charts – plus Oregon and Eugene knife laws:
http://elementalforge.com/tips_notes/

CLASSES FOR KNIFE MAKING, ETC.

Erik Olson is teaching intro to forged knives in Eugene. I don't have a business contact but his personal Facebook page is:
<https://www.facebook.com/erik.olson.77715>

Farrier Supplies aka Bent River Forge offers intro and advanced blacksmithing classes – and supplies. 26729 99W, Monroe, Oregon
Coal, coke, forges, parts, tools, classes...
<https://www.facebook.com/FarrierSuppliesOR>
(541) 847-5854

Anvil Academy in Newberg has various classes now including a knifemaking class:
<http://anvilacademy.info/schedule/>
<http://newbergdowntown.org/whats-happening/knife-making-class/>

Gene Martin offers personal instruction at his shop south of Grants Pass for a daily rate.
<http://www.customknife.com/>

Bear Iron in Cottage Grove offers blacksmith classes through Lane Community College.
<https://www.beablacksmith.com/sign-up>

Michael and Gabriel Bell of Dragonfly Forge offer an ongoing series of small group classes in Japanese style sword forging and fittings. Located on the southern Oregon Coast.
<http://dragonflyforge.com/>

Murray Carter offers small group classes in a variety of subjects, primarily focused on traditional Japanese cutlery. Located in Hillsboro, Oregon.
<http://www.cartercutlery.com/bladesmithing-courses/>

White Hart Forge offers intro to blacksmithing classes plus some advanced classes and some intro to knife making classes. Oak Grove, Oregon (just south of Portland). <https://whitehartforge.com/classes/>

Blacksmithing and some bladesmithing workshops are hosted regularly by the Northwest Blacksmith Association: <http://blacksmith.org/>

David Lisch is an ABS Master Smith who teaches classes in Washington.
<http://www.davidlisch.com/>

The ABS (American Bladesmith Society) offers classes in Washington, Arkansas and elsewhere – if you are up for traveling across the country to take classes, check out their “Schools” link:
<http://www.americanbladesmith.com/>

James Austin offers forging classes in Oakland, CA – axes, tongs, viking anvil, etc.:
http://forgedaxes.com/?page_id=148

Keep an eye out on California Blacksmith Association for workshops and events:
<http://calsmith.org/CBA-Events>

USA Knifemaker has a lot of fun & informative videos on their YouTube channel:
<https://www.youtube.com/user/USAKnifemaker/videos>
... and hey - “free” is a hard price to beat!

Nick Wheeler also has a good YouTube channel with a lot of how-to videos:
<https://www.youtube.com/user/NickWheeler33/videos>

GENERAL TOOLS & SUPPLIES

Zoro
<https://www.zoro.com/>

MSC Direct
<http://www.mscdirect.com/>

McMaster-Carr
<http://www.mcmaster.com>

Grainger
<http://www.grainger.com>

Surplus Center
<http://www.surpluscenter.com/>

Victor Machinery Exchange
<http://www.victornet.com/>

Widget Supply - Dremel tools, needle files, craft knives, drill bits, etc – Albany, Oregon.
<https://widgetsupply.com>

And of course there are the local hardware stores like Jerry's, and chains like Harbor Freight and Woodcraft.

KNIFE MAKER GENERAL

Lambowie – a low-overhead eBay alternative for custom knives and knifemaking equipment.
<https://lambowie.com>

Jantz Supply – Davis, OK
<http://www.knifemaking.com>

Texas Knifemaker's Supply – Houston, TX
<http://www.texasknife.com>

USA Knife Maker's Supply – Mankato, MN
<http://www.usaknifemaker.com/>

Knife and Gun (K&G) – Lakeside, AZ
<http://www.knifeandgun.com/>

Alpha Knife Supply – Cedar City, UT
<http://www.alphaknifesupply.com/>

True Grit – Ontario, CA
<http://www.trugrit.com>

Especially Abrasives – lower cost 2x72 belts
<http://www.especiallyabrasives.com/>

STEEL SOURCES

New Jersey Steel Baron
<http://newjerseysteelbaron.com/>

Coyote Steel – wide variety of new steel, scrap, copper, brass, bronze – Garfield & Cross St. Eugene
<http://www.coyotesteel.com>

Martin Brandt – 5160 Club member in Springfield who always has some knife steel and supplies on hand. 541 954-2168

Kelly Cupples (High Temp Tools) – Alabama
<http://www.hightemptools.com/steel.html>

Niagara Specialty Metals – New York
<http://www.nsm-ny.com> (click Products/Knife Steels)

SB Specialty Metals – New York & Texas
<http://shop.sbsm.com/>

Sandvic – stainless steels – Texas & Pennsylvania
<https://www.materials.sandvik/en-us/products/strip-steel/strip-products/knife-steel/sandvik-knife-steels/>

Burcham's Metals – Albany, Oregon – recycled metal of all sorts. Very good pricing.
<http://www.burchamsmetals.com>

Cherry City Metals – Salem, Oregon – metal recycling and useful objects
<http://www.cherrycitymetals.com/>

Swift & McCormick Metal Processors Inc.
3192 NE Sedgwick, Terrebonne, Oregon
541 548 4448

Everything from big chunks of steel to railroad spikes. Very good prices. They can torch-cut big pieces down for a small fee.

Amtek – tool steel & cutting tools
<http://www.amteksteel.com/index.html>

Pacific Machinery & Tool Steel – Portland, Oregon
<http://www.pmtsco.com/tool-die-steel.php>

Alpha Knife Supply – Cedar City, UT
<http://www.alphaknifesupply.com/>

KNIFEMAKER EQUIPMENT

Pheer [Gresham, Oregon] – affordable grinder made in Oregon
<http://www.2x72beltgrinder.com>

Origin Blade Maker – aka Oregon Blade Maker [Portland, Oregon] – affordable chassis and accessories, good reputation – with or w/out motor <https://originblademaker.com>

AMK [Ohio] – affordable grinder, quick-change between platen & contact wheel <http://amktactical.com/>

Northridge Tool [Ohio] – precision manufactured belt grinders <http://www.northridgetool.com/>

Coote [Port Ludlow, Washington] – affordable, simple grinder – you supply the motor <http://www.cootebeltgrinder.com>

Marinus Kuyl [Hillsboro, Oregon] – another affordable grinder made in Oregon – and parts – you provide the motor. <https://originblademaker.com/>

Broadbeck Ironworks LLC – [Maryland I think] – Grinders, attachments, belts, leather sewing machines <https://www.broadbeckironworks.com/attachments>

Beaumont (KMG) [Ohio] – the industry-benchmark 2x72 belt grinder <http://www.beaumontmetalworks.com/shop/>

Travis Wuertz [Arizona] – premium versatile grinder http://www.twuertz.com/Home_Page.php

Grinder-In-A-Box – grinder kit, assembly required http://www.polarbearforge.com/grinder_kit_order.html

The “No Weld Grinder” plans can be purchased from <http://usaknifemaker.com> either as a booklet or as a download – just use the search box to enter “no weld grinder”

Wayne Coe [Tennessee] – grinders, motors, VFDs... <http://www.waynecoeartistblacksmith.com>

Contact Rubber Corp – wheels etc. <http://contactrubber.com/contact-wheels.asp>

Sunray – drive wheels <https://www.sunray-inc.com/products/wheels/>

Anyang [Texas] – air hammers from 20# to 165# <http://www.anyangusa.net/>

Meyer Machine Tool [Ohio] – treadle hammer <http://www.meyermachinetool.com/Blacksmith-div-.html>

Spencer/Clontz tire hammer plans/workshops http://www.alaforge.org/Trading_Post.html

Helve Hammer and Quick-Change Dies Video – from a BladesmithsForum.com thread. <https://www.youtube.com/watch?v=uzruqYkKGNM>

True Grit – under “All Products”/“Machines & Accessories” <http://www.trugrit.com>

FORGE & REFRACTORY

Chile Forge
San Marcos, Texas
<http://www.chileforge.com/>

Mankel Forge – Muskegon, Michigan
<http://mankelforge.com/forges.html>

Mathewson Metals – forges, burners, anvils...
Tacoma Washington
<https://mathewsonmetals.com>

Western Industrial Ceramics Inc.
All things refractory – Tualatin, Oregon
<http://www.wicinc.com/>

High Temp Tools (scroll down the page for the category buttons) Tuscaloosa, Alabama
<http://www.hightemptools.com/supplies-mainpage.html>

High Temp Inc. for Kaowool, castable refractory, fire brick up to 2,600°f, etc. Portland, Oregon
<http://hightempinc.net/>

Omega – thermocouples & measuring equipment
Stamford, Connecticut
<https://www.omega.com/en-us/>

LOGO/ETCHING/STAMPS

Auber – more thermocouples and controllers, etc.
Alpharetta, Georgia
<http://www.auberins.com>

Hybridburners – home of the venturi T-Rex
Smithville, Georgia
<http://www.hybridburners.com/>

Pine Ridge Burners – for ribbon burners and all
associated fittings, blowers, valves, etc.
Conway, Massachusetts
<https://www.pineridgeburner.com>

Zoeller Forge – low cost venturi & parts: Z Burners
Lanesville, Indiana
<http://zoellerforge.com/>

Here's the original article on making a ribbon burners
that John Emmerling wrote back in 2005 for the
NWBA Newsletter:
<http://blacksmith.org/2005-1-hot-iron-news/>
You can download the PDF from that site. John's
article starts on page 11.

BLACKSMITH

Farrier Supplies aka Bent River Forge
26729 99W, Monroe, Oregon
Coal, coke, forges, parts, tools, classes...
<https://www.facebook.com/FarrierSuppliesOR>
(541) 847-5854

Blacksmith Depot
<http://www.blacksmithsdepot.com>

Pieh Tool
<http://www.piehtoolco.com>

Centaur Forge
<http://www.centaurforge.com>

Quick and Dirty Tool Co.
<http://quickanddirtytools.com/>

Ernie Grospitch – Blue Lightning Stencil
<http://www.erniesknives.com/>

IMG International Marking Group
<http://img-electromark.com/>

Marking Methods, Inc.
<http://www.markingmethods.com>

Electro-Chem Etch
<http://www.ecemmi.com/products.html>

Steel Stamp, Inc.
www.steelstampsinc.com

LectroEtch – Ohio
<https://lectroetch.com/>

HEAT TREAT SERVICES

Here are some folks who provide heat treating
services for blades. While all of these have been
recommended by one reputable person or another I
have not had experience with them. If you use one,
let us know how it went!

Paul Bos Heat Treating at Buck Knives. Paul Bos has
retired and handed the torch to Paul Farner. Highly
reputable. Post Falls, Idaho:
<http://www.buckknives.com/about-knives/heat-treating/>

Peters Heat Treating is another highly reputable
operation. Meadville, Pennsylvania:
<http://www.petersheattreat.com/?s=cutlery>

Texas Knifemaker's Supply offers heat treat services.
Houston, Texas:
<http://www.texasknife.com/vcom/privacy.php#services>

Tru-Grit provides heat treat services. Ontario,
California: https://trugrit.com/index.php?main_page=index&cPath=34

K&G also provides heat treat services but I can't find a reference on their web site – you'll have to contact them for details. Lakeside, Arizona:

<http://www.knifeandgun.com/default.asp>

Byington Blades heat treat service is in Santa Clara, California: <http://www.byingtonblades.com/>

WOOD & HANDLE MATERIAL

Gallery Hardwoods – Eugene, OR

<http://www.galleryhardwoods.com/stabilized.htm>

Burl Source – handle blocks/scales – So. Oregon

<http://burlsource.us/>

<https://www.facebook.com/BurlSource/>

Shelton Pacific – stabilized wood – Shelton, WA

<http://stores.sheltonpacific.com/>

Gilmer Wood – N.W. Portland

<https://www.gilmerwood.com/>

Bamboo Oasis – wide variety of bamboo –

Beaverton, OR phone 503-703-1345

<https://bamboooasis.com/>

North Woods Figured Wood – Gaston, OR

<http://www.nwfiguredwoods.com/>

Atlas Billiard Supplies – Wheeling, IL – cue blanks

of Micarta and exotic woods – with some sizes

suitable for knife handles. <http://www.cuestik.com/>

Crosscut Hardwoods at 2344 W 7th, Eugene

<http://www.crosscuteugene.com/>

Tree Products Hardwoods at 150 Seneca, Eugene

<http://treeproductshardwood.com/>

Northwest Timber has larger pieces of figured wood.

In Jefferson Oregon between Albany and Salem.

<https://nwtimber.com/>

and it doesn't hurt to check Mike's Bargain Center on

Hwy 99 just south of Beltline, Eugene

<https://www.facebook.com/MikesBargainCenter/>

WOOD STABILIZING

K&G (Knife and Gun) – Lakeside, AZ

Good reputation with everybody.

<http://www.kandgstabilizing.com>

Gallery Hardwoods – Eugene, OR

<http://www.galleryhardwoods.com/stabilized.htm>

WSSI (Wood Stabilizing Specialists International, Inc.) – Ionia, IA – some folks have had issues with them, some folks are totally happy.

<http://www.stabilizedwood.com/>

Alpha Knife Supply – Cedar City, UT

<http://www.alphaknifesupply.com/>

Turn Tex Woodworks – San Marcos, TX

“Cactus Juice” and pressure chambers etc. for the do-it-yourself folks.

<https://www.turntex.com>

OTHER GOODIES

Grey Leather Company – Eugene – Hannah Morgan does custom leatherwork, including sheaths.

<https://www.facebook.com/GreyLeatherCo/>

<https://www.etsy.com/shop/GreyLeatherCo>

Sally Martin Mosaic Pins – So. Oregon

<http://customknife.com/index.php?cPath=13>

Oregon Leather – 810 Conger Eugene and 110 N.W. 2ND Portland

<http://www.oregonleatherco.com/>

Rio Grande – jewelry tools/supplies

<http://www.riogrande.com>

Otto Frei – jewelry tools/supplies

<http://www.ottofrei.com>

M3 Composite – space age mokume & other

<http://www.m3composite.com/>

Voodoo Resins – striking resin handle material

<http://www.voodooresins.com/>

The Engineering Toolbox (formula & info reference)
<http://www.engineeringtoolbox.com>

Valley Stainless (that does water-jet cutting) is one of Craig Morgan's customers. They told Craig “bring in a pattern” and they'd work with you on small batch cutting. They don't have a website yet. 29884 E Enid Rd, Eugene, Oregon 97402 (541) 686-4600.