

WOODSHOP

Shaping the Successful Shop™

www.woodshopnews.com

October 2019

NEWS®

Playing the new name game

An established shop in Newport, R.I. changes its brand

Small-shop CNCs: Versatile & affordable

2020 Vision: Planning for the year ahead

A stroll down the new hardware aisle

NEW TOOLS

- Apollo Precision-5
- PaintLine drying racks
- Techno CNC Venture Plus
- Wood-Mizer SlabMizer

\$3.95 (Canada, \$5.95)



15" 3 HP PLANER WITH SPIRAL CUTTERHEAD

- Motor: 3 HP, 240V, 15A, single-phase
- Max. stock width: 15"
- Maximum stock thickness: 6-1/8"
- 3", 4-flute, spiral cutterhead with 52 carbide inserts
- Pedestal-mounted control panel
- Magnetic switch with overload protection
- 2-Speed, chain-driven, automatic feed rollers—16 & 20 FPM
- Ball bearing return rollers
- Precision-ground, cast iron table and extension wings
- Table size with extension wings: 15" x 48"
- Dust port: 4"
- CSA Certified
- Approximate shipping weight: 581 lbs.



W1863 15" 3 HP Planer w/ Spiral Cutterhead

7" 2 HP PLANER MOULDER W/ STAND

- Motor: 2HP, 240V, single-phase, 10.8A
- Cutterhead speed: 7000 RPM • CPM: 14,000 • CPI: 64-300
- Feed rate: 0-18 FPM • Max. profile: 6 3/4" W x 3/4" D
- Planing width: 7" • Min. stock length: 9"
- Min. stock thickness: 1/4" • Max. stock thickness: 7 1/2"
- Overall dimensions: 36 1/4" L x 22" W x 34 1/2" H
- Approx. shipping weight: 324 lbs.



W1812 7" 2 HP Planer Moulder w/ Stand

D3393 Elliptical Jig for W1812



PATENT OWNED BY
WOODSTOCK
INTERNATIONAL INC.

18" 1 1/2 HP OPEN-END DRUM SANDER W/VARIABLE-SPEED FEED

- Sanding motor: 1 1/2 HP, 120V, single-phase, 13 Amps
- Sandpaper speed: 2600, 3400 FPM
- Conveyor feed rate: 0-12 FPM
- Max. stock dimensions: 36" wide x 4 1/2" thick
- Min. board length: 6"
- Min. board thickness: 1/8"
- Sanding drum size: 4"
- Dust port: 4"
- 18" x 44 1/2" abrasive conveyor belt
- Uses 3" wide sandpaper roll
- Includes 100-grit sandpaper
- Overall size: 50" H x 35 1/2" W x 22 1/2" D
- Approx. shipping weight: 235 lbs.



W1854 18" 1 1/2 HP Drum Sander

13" 3/4 HP OSCILLATING DRILL PRESSES

- Motor: 3/4 HP, 110V
- Spindle travel: 3 1/4"
- Swing: 13 1/4"
- Drill Chuck: 1/64"-5/8"
- Arbor: JT-33
- Speeds: 12, 250-3050 RPM
- Table size: 12 3/8" dia.
- Table swing: 360°
- Table tilt: 45° left & 45° right
- Oscillating spindle: 3/4"
- Table dust port: 2"
- Approx. shipping weight: 123 lbs. (W1668), 180 lbs. (W1848)



Spindle Oscillation is so unique that it was issued a patent!



Includes sanding drums

A PATENT WAS ISSUED
AS A RESULT OF ITS
AMAZING TECHNOLOGY



W1668
Bench-Top
Model



W1848
Floor Model

New



38"

63"

W1668 13" 3/4 HP, Bench-Top Drill Press

W1848 13" 3/4 HP, Floor Drill Press **NEW MODEL!**

KNIFE BELT SANDER/BUFFER

- Motor: 1 HP, 110V, 14A, 1725 RPM
- Belt size: 2" x 72"-76" range
- Belt speed: 4500 FPM
- Left arbor: 1" x 8 1/2" extension with 5/8" arbor
- Height with belt arm horizontal: 11 1/2"
- Height with belt arm vertical: 37"
- Overall width: 29 1/2"
- Cast-iron body
- All ball bearing construction
- Approx. shipping weight: 113 lbs.



W1843 Knife Belt Sander/Buffer

6" X 29" BENCHTOP JOINTER

- Motor: 1 1/2" HP, 110V, single-phase, 12A
- Max. width of cut: 6"
- Min. workpiece length: 8"
- Max. depth of cut (per pass): 1/8"
- Cutterhead speed: 10,000 RPM
- Cuts per minute: 20,000
- Cutterhead diameter: 1 7/8"
- Knives: 2 (HSS), 6" x 7/8" x 3/32"
- Footprint: 18 7/8" x 11"
- Table size: 28 1/2" x 6 1/4"
- Fence size: 22 7/8" x 4 1/4"
- Dust port: 2 1/2"
- Approximate shipping weight: 82 lbs.



W1829 6" x 29" Benchtop Jointer

10" 2 HP OPEN STAND HYBRID TABLE SAW

- Motor: 2 HP, 120V/240V, single-phase (prewired for 120V)
- Motor Amps: 15A at 120V, 7.5A at 240V
- Enclosed cabinet bottom with 4" dust port
- Precision-ground cast-iron table with steel wing measures 40-1/4" x 27"
- Rip capacity: 30" to right, 15" to left
- Includes a 10" x 40-tooth carbide-tipped blade, standard and dado table inserts, miter gauge, push stick, and arbor wrenches
- Weight: 243 lbs.



W1837 10" Hybrid Table Saw With Extension Table

Available from Dealers Nationwide.

PLEASE VISIT OUR WEBSITE OR CALL TOLL FREE TO FIND AN AUTHORIZED DEALER NEAR YOU.



SHOPFOX.BIZ

sales@woodstockint.com WHOLESALE ONLY



1-800-840-8420

SHOP FOX® is a registered trademark of Woodstock® International, Inc.



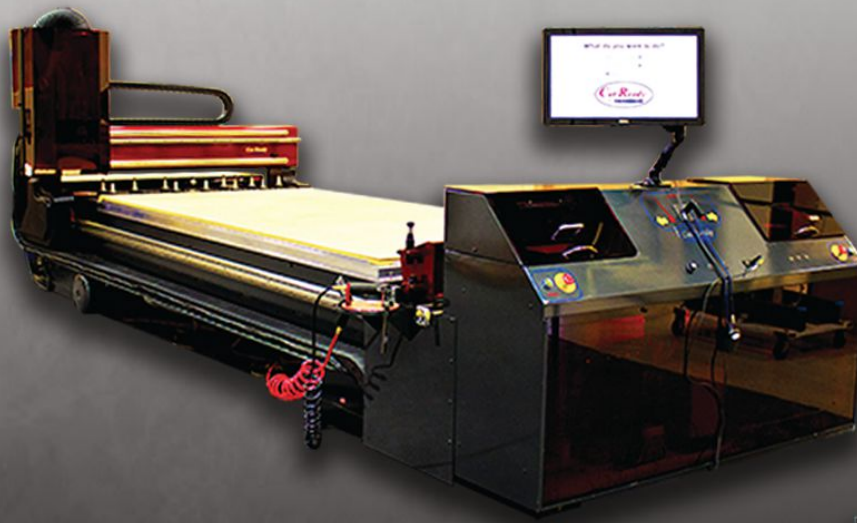
CABINET VISION

THE WORLD'S #1 SOFTWARE FOR CABINET MANUFACTURERS

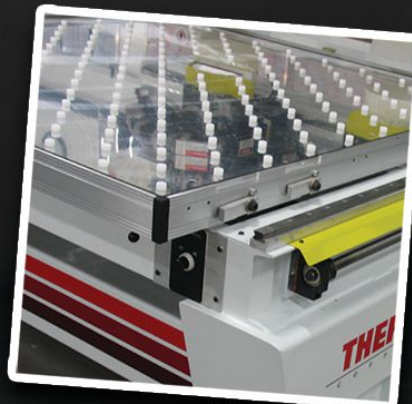
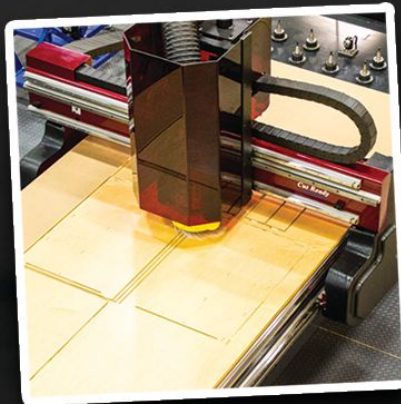
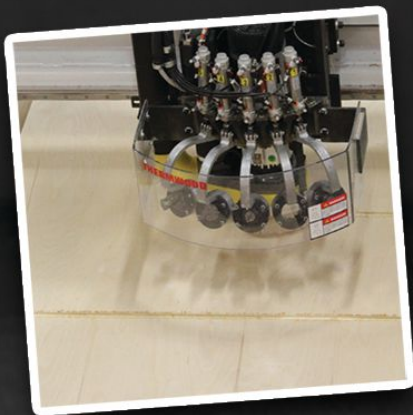
CABINET VISION is the industry leading software tool for cabinet and casegoods manufacturers. From entry level cutlist packages, to fully integrated Screen-to-Machine solutions, CABINET VISION will grow with your company.



HexagonMI.com | CabinetVision.com



50
1969-2019
THERMWOOD
FIFTY YEARS MADE IN THE USA



High Performance 3 Axis CNC Machining Centers

THERMWOOD

www.thermwood.com • 800-533-6901

Table of Contents



PHOTO: MICHAEL GORDON (TOP, COVER)

34

Design and Manufacturing
Software For the Cabinet and
Door Industries since 1986

CabinetPro®
SimplyPowerful®

**Simple.
Powerful.
Affordable.**



**The
All-In-One
Software
Solution!**

**Cabinet Pro generates
its own CNC code**

FREE Technical Support!
NO Keys or Dongles!
NO Yearly Maintenance Fees!

www.cabinetpro.com • (702) 330-0775

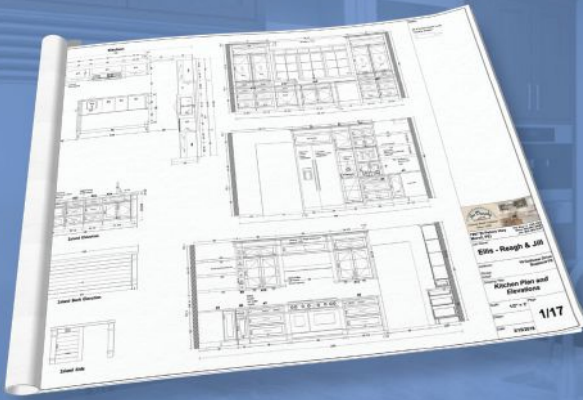
Features

- 26** **PICK AND CHOOSE:** The world is your oyster when it comes to innovative hardware products.
- 34** **PLAYING THE NEW NAME GAME:** There's a new shop in Rhode Island that's been around for several decades as Yoffa Woodworking begins its next chapter as Calderwood Custom Millwork.
- 40** **DOING MORE WITH LESS:** The small-shop CNC market is bursting with affordable, user-friendly, multi-purpose options.

News Desk

- 10** WMIA awards annual educational scholarships.
- 12** New home sales hit post-recession high.
- 12** First CalPlant set to produce rice straw MDF.
- 18** **WOOD MARKETS:** Walnut interest unlikely to wane.

Mozaiik™



“ *This was the*
BEST DECISION
we could have
made. We are now
over 2 years into
it and there is no
way that I would
ever go back to
using any other
program.
John S. **”**



Beyond Affordable!

Mozaiik gives you the tools you need to design and detail all your jobs. It's fast, simple, and accurate.

No upfront costs and no hidden fees. One easy monthly payment includes your software license, updates, online support, video training, post processor and so much more!

Maybe it's time to move beyond the limits of your current software and join the thousands switching to Mozaiik!

Mozaiik Design \$50/mo

Mozaiik Manufacturing \$75/mo

Mozaiik CNC Complete \$125/mo

What's in your shop?



mozaiksoftware.com

760.585.9550

Modern. Affordable. Simply Better.



52



48

Columns

- 23 PRO SHOP:**
Planning for 2020.
By John English

Tools & Techniques

- 19** Wood-Mizer adds SlabMizer.
20 PaintLine presents drying racks and spray stands.
21 Techno CNC debuts Venture Plus Series.
22 Apollo Sprayers launches Precision-5 Pro series.

Departments

- 8** Taking Stock
48 At the Galleries
52 New Products
59 Calendar
61 Classified
64 Out of the Woodwork

Visit us online at www.woodshopnews.com

BLOGS



Over the Workbench
Talkin' shop with former editor A.J. Hamler



This Business about Woodworking
Share an opinion with David DeCristoforo but don't expect to be right

- **Contact Customer Service**
www.woodshopnews.com/subscribe
- **Tools & Machinery**
www.woodshopnews.com/tools-machines
- **Contact the Staff**
www.woodshopnews.com/contact-us
- **Advertising Information**
www.woodshopnews.com/advertise
- **2019 Online Resource Guide**
<http://resourceguide.woodshopnews.com>

More Island Legs to Choose from than Anywhere Else!

Osborne has more island leg profiles in a variety of shapes, styles and materials than any other supplier, bar none! No minimum orders!



Serving Cabinetmakers, Woodworkers and Remodelers
www.OsborneWood.com



Streamline® RTA Cabinets
DRS131 3/4" (131), 2-1/2" Frame, Satin White
Morningside 3/4" (119), Fog Insert

DECORE-ATIVE SPECIALTIES®



Orders, Quotes, Information
800.729.7277
DECORE.COM



TAKING STOCK

with TOD RIGGIO

Drum roll please: To grandmother's house we go?

My 10-year-old son is taking up the drums. I mention this only because I'm worried about losing my shop to band practice.

Just to be clear, I'm very pro drummer. Bring on da noise, I say. There's already a drum set in my shop, hidden under a tarp on a high shelf. Maybe he'll get it for his birthday or Christmas. But where to put it?

My first thought was grandma's house. It has plenty of seldom used rooms and – how to put this – she's practically deaf. Junior could bang on his drums all day and she might not even notice. I have yet to receive an official confirmation to this idea.

The second and most likely landing spot is our finished basement. The conflict here is two-fold: it's where I go to watch sports and I've been angling for a pool table. I'm open to negotiation.

But there's an argument to made for the shop. It's a stand-alone building with plenty of power and lights. Jettison the cabinet saw, throw down a few rugs and strike up the band.

Of course, I will fight for my shop. It's been about seven years in the making and a fairly comfortable refuge. My ace in the hole is that it has no heat or insulation. It's not very hospitable in a New England winter or summer. That could change, of course, but why bring it up?

We'll see how this plays out. My best guess is that eight or so years from now I'll be writing about the day I get my shop back after my worst fears were realized, and we can all have another laugh.

Final formaldehyde rule

On Aug. 21, the Environmental Protection Agency published a final rule that provides technical amendments to the Dec. 12, 2016 formaldehyde rule. The amendments further align EPA's TSCA Title VI regulation with the California Air Resource Board's Airborne Toxic Control Measure to reduce formaldehyde emissions from composite wood and provide clarity on certain rule provisions.

Composite wood products still are required to meet emission standards, to be tested and certified, and to be sold with a label stating that they are TSCA Title VI certified. Finished goods containing composite wood products still must be sold with a label stating that they are TSCA Title VI compliant.

Then the EPA took its first enforcement action, fining Global Sourcing Solutions (GSS) of Montvale, N.J. \$544,064 for failing to comply with its formaldehyde standards. The fine was related to two containers of imported finished goods made of composite wood products, stamped EU compliant, that were not TSCA VI certified. **W**

Working with tools and wood is inherently dangerous. We try to give our readers tips that will enhance their understanding of woodworking. But our best advice is to make safety your first priority. Always read your owner's manuals, work with properly maintained equipment and use safety devices such as blade guards, push sticks and eye protection. Don't do things you're not sure you can do safely, including the techniques described in this publication or in others. Seek proper training if you have questions about woodworking techniques or the functions of power machinery.

EDITOR TOD RIGGIO

ART DIRECTOR BRIANA SMITH
STAFF WRITER JENNIFER HICKS

CONTRIBUTING WRITERS

BOB FLEXNER, JOHN ENGLISH, GREG WILLIAMS

WEB ADMINISTRATOR MARY LOU COOKE

SALES & MARKETING

PUBLISHER
RORY BEGLIN

860-767-3200 EXT. 242; rory@woodshopnews.com

CLASSIFIED MARKETPLACE ADVERTISING

860-767-3200 EXT. 242; FAX: 860-767-1048
marketplace@woodshopnews.com



MARINE GROUP PRESIDENT GARY DE SANCTIS

VP EDITORIAL DIRECTOR BILL Sisson

VP MARKETING AND EVENTS JULIE JARVIE

VP DIGITAL DEVELOPMENT ERIC DALLIN

FINANCIAL ANALYST CHRISTINE NILSEN

PRODUCTION MANAGER SUNITA PATEL

PRODUCTION COORDINATORS CHRIS CIRILLI,

AMY PINTO, JENNIFER WILLIAMS

TRAFFIC COORDINATOR SARA CARPENTER

DIRECTOR ACCOUNTING SHARED SERVICES KELLY BAUMGARDNER

EXECUTIVE DIRECTOR, CONSUMER MARKETING DANA RAVEN

CIRCULATION, FULFILLMENT MANAGER CERISSE CARPENTER

IT SUPPORT COLLIN DEHNERT



ACTIVE INTEREST MEDIA

PRESIDENT & CEO ANDREW W. CLURMAN
COO, CFO & TREASURER MICHAEL HENRY
VP AUDIENCE DEVELOPMENT TOM MASTERTSON
VP, CONTROLLER DEVON HOPKINS
VP, IT NELSON SAENZ
VP OF PEOPLE AND PLACES JOANN THOMAS



AIM BOARD CHAIR EFREM ZIMBALIST III

HEADQUARTERS:

10 Bokum Road, Essex, CT 06426
(860) 767-3200 • Fax (860) 767-0642
Editorial E-mail: editorial@woodshopnews.com
Advertising E-mail: sales@woodshopnews.com
Website: www.woodshopnews.com
Advertising Billing Questions: (661) 965-9925

SUBSCRIPTION SERVICES:

For questions, problems, or changes to your Woodshop News subscription,
CALL: 800-243-9177

EMAIL: WDNcustserv@cdsfulfillment.com

WRITE: Woodshop News, PO Box 433212, Palm Coast, FL 32143-3212

Canada Post Return Address undeliverable to:

APC-PLI, PO, Box 503, RPO West Beaver Creek,

Richmond Hill, ON L4B 4R6,

Canada Post Publication Mail Agreement No 40624074.

Woodshop News, (ISSN 0894-5403, U.S.P.S. 000-966).

Vol. XXXIII, No. 11, is published monthly by Cruz Bay Publishing, Inc., an Active Interest Media company. The known office of publication is: 10 Bokum Road, Essex, CT 06426. \$21.95 for one year; \$35.95 for two years (Canadian subscribers add \$12 per year for postage; U.S. funds, foreign subscribers add \$14 per year for postage; U.S. funds). Periodicals postage paid at Essex, CT, and additional mailing offices. **Postmaster:** Send address changes to WOODSHOP NEWS, PO Box 37274, Boone, IA 50037-0274. Printed in the U.S.A.



Available For Hire

\$22.00 / Hour*

ANDERSON AXXIOM 1631
FIVE-AXIS CNC ROUTER



AXXIOM 1631 FIVE-AXIS CNC ROUTER COMPLETE PACKAGE DELIVERED & INSTALLED

- FANUC 31iM-B5 Controller System with PC Front & Handheld Pendant
- FANUC Electronics, Drives, and Servos with 2-year warranty
- Full Five-Axis Interpolation for Multi Axis Parts with 39 inches of Z-Stroke
- Optional Integrated Dust Collection Hood that moves with the spindle nose
- Flexible Grid Table System for Pods, Cups, Clamps, or Nesting
- Includes additional Vacuum Plug-In manifold for 2 stage vacuum clamping
- Available with T-Slot Table Ready for Tombstone or Pedestal Machining
- 18HP 4-Pole Liquid Cooled Router Spindle with Aggregate Capability
- 8 Position Aggregate Ready Rotary Tool Changer
- 8 HSK-63F Tool Holders, 8 Chuck Nuts, 16 Collets
- Automatic Tool Length Measuring Device
- Automatic Lubrication for X & Y Axes
- Includes Optional 9HP Becker Vacuum Pump
- Lifetime Technical Phone Support & Online Remote Diagnostics
- Includes Freight, Installation, Training, Travel, and Lodging

*Payments based on 40 hours per week for 4.3 work weeks per month for 60 months—Standard Package Price

ANDERSON AMERICA INC.
Anderson Group

Visit our Showroom

10620 Southern Loop Blvd.
Pineville, NC 28134

P: 704.522.1823
E: sales@andersonamerica.com

www.AndersonAmerica.com

NEWS DESK



(First row, left to right) Caleb Wuthnow, Erica Cartwright, Elizabeth Moreno, Gage Davis, Kyle Gorham and Larry Johnston; (Second row) Jes Jordan, Harrison Houser, Justin Angel, Sarah Provard, Katie Roux, Kelson Claassen and Liz Xu; (Third row) Marie-Elisabeth Guerin, Nathalie Locas, Pablo Partida, Katherine Stuglik, Kristen Van Hoosen and Kendra Van Polen.

WMIA awards annual educational scholarships

By Jennifer Hicks

The Woodworking Machinery Industry Association recently awarded \$30,000 in educational scholarships through its Educational Foundation.

The foundation has a long history of awarding scholarships to those who want to study, and eventually pursue a career in, wood technology, machinery, and related fields. To date, it has provided nearly \$450,000 to assist talented students with furthering their educational and career goals, according to the association.

"Once again this year, WMIA's Education Committee and the Foundation Board of Trustees were quite impressed with not only the skills and accomplishments of the scholarship recipients, but the passion they expressed about having a career in the wood-

working industry," Chris Hofmann, chairman of the education committee and product manager for Lamello, said in a statement.

"Once again, it was great to see such a large number of female students receiving scholarships. WMIA is very proud to support the industry in this way year after year."

The 2019 scholarship recipients and their schools are:

- Justin Angel of Mount Airy, N.C. (Appalachian State University)
- Harrison Houser of Clinton, Wash.; Elizabeth Moreno of Tacoma, Wash.; Erica Cartwright, Jes Jordan, Pablo Partida, and Katie Roux of Seattle (Seattle Central College Wood Technology Center)
- Larry Johnston of Boston (New England

School of Architectural Woodworking)

- Marie-Elisabeth Guerin of Victoria-ville, Canada and Nathalie Locas of Montreal (École Nationale du Meuble et de L'Ébénisterie)

- Kelson Claassen of Hesston, Kan; Gage Davis of Dorchester, Texas; Sarah Provard of West Jordan, Utah; Kristen Van Hoosen of Omaha, Neb.; Kendra Van Polen of McBain, Mich., and Caleb Wuthnow of Pittsburg, Kan. (Pittsburg State University)

- Liz Xu of Montreal (Rosemount Technology Centre)

- Katherine Stuglik of Hamilton, Canada (Conestoga College)

- Kyle Gorham of Baldwinsville, N.Y. (SUNY Morrisville)

The foundation is supported by contributions from business groups and individuals in the woodworking industry, and the International Woodworking Fair.

For more, visit www.wmia.org. 



LOBO

WOODWORKING MACHINERY

Castaly

Quality + Service
Pay Less

With the enthusiasm and passion of woodworking, Castaly Machinery offer the machines to allow woodworkers to create more with less cost. The featured tools are engineered with multi-functions that bring out the best quality and easy adaption. **Contact us for more details!**



TWIN-408
Twin Table 4'x8' CNC Router

\$43,990.00



Basic-408
Basic 4'x8' CNC Router

\$12,990.00



Super-510
Super 5'x10' CNC Router
Standard

\$49,990.00



CLC-3624
36"x24" Engraving
Laser

\$5,690.00



CS-18AAT-12
18" Auto
Program 12FT
Cut Off Saw

\$22,990.00



TRS-0016
16" Single Rip Saw

\$13,990.00



PL-18
18" Two Side
Planer with Straight
Knife Cutter

\$19,990.00



SM-236A
9"6 Spindle Moulder

\$32,990.00

Castaly Industries Corp.

FULFILLING ALL YOUR MACHINERY NEEDS

WEBSITE: WWW.CASTALY-CNCMACHINE.COM | WWW.LOBO-MACHINE.COM

TEL: +1 626 968 6330 | FAX: +1 626 968 6333

ADDRESS: 637 VINELAND AVE. LA PUENTE, CA 91746



First CalPlant set to produce rice straw MDF

By Jennifer Hicks

CalPlant I, a \$315 million production plant in Willows, Calif. that will make MDF paneling out of rice straw, is on target to begin production this fall, according to plant managers.

Construction of the manufacturing facility was 80 percent complete by July, with an inventory of more than 200,000 tons of rice straw in storage for the first run of panels, which should roll off the line this November. CalPlant CEO Jerry Uhland says the facility is a first of its kind in many ways.

"Not only will it have a production capacity to supply 30 percent of California's MDF demand, it will significantly reduce the use of water

to flood rice fields in the Sacramento Valley, thereby cutting the production of greenhouse gases," he says, referring to the current method of decomposing the straw after its annual harvest.

"Those aspects, along with the tremendous direct and indirect benefits the plant operations will bring to the Willows area, make this a legacy project for Glenn County and the state of California."

CalPlant will be the world's first commercial-scale producer of no-added-formaldehyde, rice straw-based MDF, and at design capacity, the plant will produce more than 140 million sq. ft. annually.

Employing a Generation 9 Siempelkamp ContiRoll continuous press, which is 10' wide and 115' long, CalPlant will be staffed by 115 full-time employees with 450 part-timers during the annual straw-collection period. It will produce panels from 2 to 30mm.

Columbia Forest Products is CalPlant's exclusive sales agent and an investor in the project.

For more, visit www.calplant1.com. [W](#)

New home sales hit post-recession high

By Jennifer Hicks

New home sales increased 4.1 percent on a year-to-date basis, according to an August report from the National Association of Home Builders.

"Builder confidence continues to trend upward as lower interest rates provide for more favorable buying conditions," Greg Ugalde, NAHB chairman, said in a statement that accompanied the report.

"New home sales were sharply revised upward in June to a post-recession high annual rate of 728,000," added the NAHB's chief economist, Robert Dietz. "While we continue to see volatility in the monthly numbers, sales continue to trend in a slightly positive direction and are in line with our forecast."

A new home sale occurs when a sales contract is signed or a deposit

is accepted, according to the NAHB. The home can be in any stage of construction: not yet started, under construction or completed. In addition to adjusting for seasonal effects, the July reading of 635,000 units is the number of homes that would sell if this pace continued for the next 12 months.

The total inventory of new homes for sale was 337,000 in July, representing a supply of almost six-and-a-half months. The median sales price was \$312,800.

Regionally, and on a year-to-date basis, new home sales increased in the South (7.2 percent) and West (9.5). Sales decreased in the Northeast (15.4 percent) and Midwest (12.4).

For more, visit www.nahb.org. [W](#)

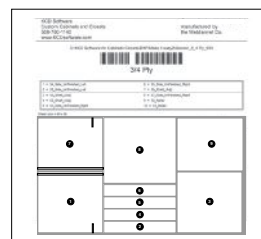
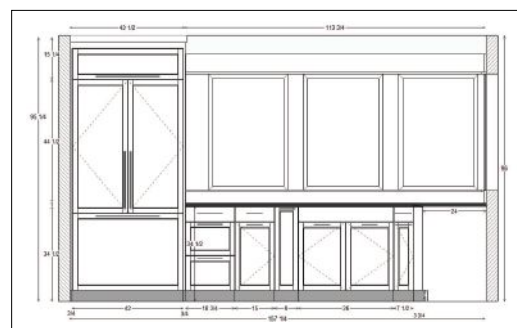


Design-build by The Webhannet Co.
using KCD Software's CNC Commander
with One Button Machining

INSPIRED DESIGN
TO MANUFACTURED
BEAUTY



KCD SOFTWARE 3D RENDERING (DETAIL)



KCD Software

Software You Can Build On.™
KCDsoftware.com | 508.760.1140

Parksite partners with Windsor Holding Co.

WindsorOne, a leader in the interior/exterior trim market since 1972, is now available in six Parksite branches including Bolingbrook, Ill.; Louisville, Ohio; Syracuse, N.Y.; South Windsor, Conn.; North Brunswick, N.J., and Baltimore, Md., with plans to expand to all nine locations in the near future.

Parksite is a distributor of highly specialized products for the commercial, residential and remodel markets.

"WindsorOne is excited about joining forces with Parksite. Culturally, our companies are synergetic and Parksite has an excellent reputation of being a distributor of branded, high quality building products. By partnering with them we see a lot of growth potential in existing markets where WindsorOne is a brand leader, as well as, new emerging markets," Sean Pasell, WindsorOne's director of sales, said in a statement.

For more, visit www.parksite.com and windsorone.com.

Metabo HPT join Gen T movement

Metabo HPT, formerly Hitachi Power Tools, announced it is joining Generation T, a national movement launched by Lowe's Home Improvement to address the widening skilled trades gap.

Gen T seeks to drive enrollment in skilled trade training and build a pipeline of skilled trade workers to offset the anticipated gap of 3 million jobs by 2028.

One key component of the movement is a first-of-its-kind national skilled jobs marketplace, available on the Gen T website, that connects people to prospective apprentices.

"Metabo HPT is proud to be a part of this movement, and we are excited about how we can support strengthening our key trade customers," said Joe Leffler, Senior Vice President of Sales & Marketing at Metabo HPT. "Helping drive awareness in support of our future trades men and women throughout the country is vital."

For more, visit www.wearegenerationt.com.

Mohawk joins NWFA's Responsible Procurement Program

Mohawk Industries, a leading supplier of wood flooring in the United States, has joined the National Wood Flooring Association's Responsible Procurement Program.

The RPP is a joint initiative between leading environmental groups and industry manufacturers committed to producing and promoting wood floors that come only from environmentally and socially responsible sources.

"NWFA is pleased to welcome Mohawk Industries to the Responsible Procurement Program," says NWFA President & CEO, Michael Martin. "With the addition of Mohawk, RPP participating manufacturers now account for more than 27 percent of all wood flooring consumed in the United States."

Other participating manufacturers include American OEM, Anderson Tuflex, Mannington, Mullican, Shaw, and Sheoga.

For more, visit www.nwfa.org.

574853, FESTOOL OSC 18 LI
E-BASIC CORDLESS OSCILLATOR



575349, FESTOOL AGC 18-115 LI
E-BASIC CORDLESS ANGLE GRINDER

FESTOOLS-ONLINE.COM

FESTOOL AUTHORIZED DEALER

NEW KAPEX KS 120 REB



575306, FESTOOL KS 120 REB SLIDING COMPOUND MITER SAW

NEW BASE WITH INTEGRATED SLIDING TABLE EXTENSIONS
INCLUDES BAYONET-STYLE DUST PORT

LOWEST PRICES ■ FAST SHIPPING
833-GET-TOOL

SHOP NOW

FESTOOLS-ONLINE.COM
YOUR SOURCE FOR FESTOOL TOOLS PRODUCTS



TALENT T3 CNC ROUTER INCLUDES*

- Multi-Zone Vacuum Table
- 12 Position Carousel
- 12 Horsepower Spindle
- 9-Spindle Boring Block
- Auto Clean-Sweep Unload
- 250 cu/m Vacuum Pump
- V-Carve Pro
- 3 Months Moziak Software

- One Year Warranty
- Operator Certification
- One Year Unlimited Phone Support
- Training on your machine

***No really,
it's all included.**

4X8 MACHINE
\$52,780

6X12 MACHINE
\$62,780

**NOTHING RUNS
BETTER THAN NEW.**

NEWCNC.COM

(616) 994-8844

info@newcnc.com

**510 East 40th Street
Holland, Michigan, USA**



Providence will host two shows on same weekend

The 24th annual Fine Furnishings Show and the third annual Art Providence Show will both be staged on Nov. 8-10 and collectively showcase the work of over 250 high-end artists, makers and designers.

The Fine Furnishings Show will return to the WaterFire Arts Center for the second consecutive year. A little over a mile and less than a five-minute drive away, the Art Providence Show will fill two halls at the Rhode Island Convention Center.

"The WaterFire Arts Center is a wonderful venue for our show," said Karla Little, owner of the Fine Furnishings Shows. "It provides a lovely and fitting backdrop for our exhibitors' work and fabulous amenities for both exhibitors and attendees, including ample free parking."

The Art Providence Show, formerly the annual RISD Alumni Holiday Sale that was traditionally held the first Saturday in December, is produced by ArtSmart Productions and will be presented in Exhibit Halls C and D of the Rhode Island Convention Center.

"The capacity of the RICC is unmatched and we love being in downtown Providence," said Laura Burkett, owner/operator of ArtSmart and Executive Director of the Art Providence Show.

"We wanted to move off the December date and get ahead of the curve," added Burkett. "When we discovered our best option was the same weekend as the Fine Furnishings Show, Karla could not have been more gracious about our move. Right away we discussed opportunities to work together rather than compete, and it felt empowering."

For more, visit www.finefurnishingshows.com and www.artprovidenceshow.com.

OCTOBER OVERSTOCK

UP TO **20%** DISCOUNT ON 100+ JOINERY MACHINES



NOVA SI 400
#1 CLASSICAL SLIDING TABLE SAW



MINIMAX ME 35TR
CORNER ROUNDING EDGEBANDER



MINIMAX FS 30C
12" JOINTER/PLANER COMBINATION



CLASS S 630
24" INDUSTRIAL PLANER



FORMULA S 400P/500P
INDUSTRIAL HEAVY-DUTY BANDSAWS



MINIMAX AD 21
MULTISPINDLE BORING MACHINE



MORE DETAILS | 770.622.6585

WoodshopNews@scmgroup.com | scmwood.com

NWFA presents new Next Generation award

Finneas Luca, 11-year-old son of NWFA member Dinu Luca, owner of ADL Floors Inc. in Woodinville, Wash., has been named the first recipient of the NWFA Next Generation award. The award was created to recognize the growing impact young people are having on the wood flooring industry.

"Almost three years ago now, the NWFA launched NWFA University in an effort to reach more wood flooring professionals with training opportunities when and where they want it," NWFA President & CEO Michael Martin said in a statement. "Our vision at the time was to offer a new, cost-effective, convenient way to provide training basics without the burden or cost of travel. Our hope at the time was to engage with younger generations in ways they already embraced – digitally. Never, in our wildest dreams, did we image we'd have an impact on an 11-year-old protégé."

Finneas is the youngest person to successfully complete all of the NWFAU courses in the Installation learning path and the Sand & Finish learning path. To accomplish this, he took 72 required courses, and passed each of the assessments, scoring 80 percent or higher for each. The award was presented to recognize Finneas' accomplishment, and to encourage him and others to remain engaged with life-long learning.

For more, visit www.nwfa.org.

OPENING LIFTING SLIDING STORING... ALL FROM SALICE



For every type of movement... the answer is Salice. A comprehensive range of products that combines excellence in research-based design and technical expertise to provide solutions for every cabinetry application.

- Hinges & mounting plates
- Lift systems
- Sliding systems
- Runners & drawers



saliceamerica.com

SALICE

Walnut interest unlikely to wane

By Jennifer Hicks

Sales of eastern black walnut [*Juglans nigra*] are as steady as ever, according to suppliers interviewed by Woodshop News, who say woodworkers of all skill levels appreciate the domestic's rich color and workability for a variety of products.

"Walnut's always one of our top movers, especially 2" thick stock as of late. We've seen a lot of that purchased for custom tables and bar top furniture, whether it be the live edge or plain sawn," says Clint Dillon at Steve Wall Lumber, a retailer in Mayodan, N.C.

"It's always been really popular because it's got that natural chocolate color and it stands alone by itself as a domestic hardwood. You don't have to stain it or anything and the grain on it is not very hard to work with."

Myles Gilmer sells more claro or western walnut [*Juglans hindsii*] at his Gilmer Wood Co. in Portland, Ore.

"We still bring in eastern black although a couple of the mills that I do buy from it just seems to me that the grades are slipping somewhat; the wood tends to be sappy," says Gilmer.

"I have a fair number of table slabs in the claro and they're pretty popular. They're not as expensive as some of the exotics you see like bubinga. It's pretty popular for tables and mantle pieces, even for bathrooms and kitchen countertops," says Gilmer.

Steamed walnut continues to sell well for Bruce Denslow of the Wood & Shop in Eolia, Mo.

"It's still as popular as ever; we've always had pretty strong sales in it," says Denslow. "We sell quite a variety of thicknesses for the home hobbyist, down to 1/8", and the thinner stocks do tend to sell better for us than the thicker stock. Most home hobbyists are doing scroll saw work or laser cutting, that kind of thing," says Denslow. "The walnut cuts well and of course it's beautiful when it's finished"

Black walnut (4/4) retails for about \$6.25/bf, while claro walnut goes for \$5 to \$10/bf. **W**



Pin and Pinless Meters

Choose a Pin or Pinless Moisture Meter from Lignomat for Reliability, Accuracy and Competitive Price.

View our complete line of meters
www.lignomat.com

Call for more information
800-227-2105

Lignomat



Pinless Moisture Meter and Thermo-Hygrometer

The Ligno-DuoTec BW measures wood moisture and relative humidity. Avoid shrinking and warping, use a BW meter.

> Pinless mode:

Measures 1/4" and 3/4" deep with built-in wood species corrections.

> Thermo-Hygrometer mode:

Measures relative humidity and temperature with RH Probe.

TOOLS & TECHNIQUES

Wood-Mizer adds SlabMizer

By Jennifer Hicks

Wood-Mizer introduces the SlabMizer to meet the growing demand for high-quality finished wood slabs.

"Wood-Mizer is committed to providing our customers with the equipment necessary to process material from forest to final form," Greg Bacon, Wood-Mizer's sales director, said in a statement.

"The SlabMizer satisfies the needs of operations producing high-value finished slabs and reduces the manual labor required to finish these wide slabs that are extremely valuable in the woodworking industry."

Compared to a traditional router or planer, the SlabMizer flattens wider and thicker material up to 56" wide and 8" thick in less time using powered cutter head directional controls with variable feed speed or manual feed, according to the company.

For larger capacity, 5' modular table extensions can be added to extend the material length and a 72" width option is coming soon.

The SlabMizer also features an orbital head attachment and is built in the U.S.

The SlabMizer starts at \$16,995.

For more, visit www.woodmizer.com. 



Calling all cabinetmakers, custom woodworkers, fine furniture makers - WPE will be bigger and better in 2019!

More exhibitors, more attendees and more education - guaranteed. This is the only regional show in the Northeast to serve the professional woodworking industry.

Free Keynotes and Running Machinery Program:

- FDMC's renowned editor, Will Sampson, Path to Professionalism
- Dr. Eugene Wengert, AKA the Wood Doctor, Controlling your Future
- Education on the floor aimed at giving participants a comprehensive understanding of the machines and systems on display.

And there's more education if you register for the classroom sessions. For instance:

- Moisture content for kiln dried lumber
- Costing and estimating your projects
- Running a small woodwork shop
- Finishing techniques



REGISTER NOW at WoodProExpo.com
Use code [WPEPASS_WSN](#) for free expo floor pass!

Interested in exhibiting or need more info? Register by calling Lewis Goldman at 800-969-2212, or email lewis@woodproexpo.com

WoodProExpo Lancaster is produced by **Woodworking Network**

PaintLine presents drying racks and spray stands

By Jennifer Hicks

PaintLine, a manufacturer of products designed to increase efficiency and productivity in the finishing industry, has added several new fully collapsible drying racks and spray stands.

Company president Kyle Robinson says one of the most popular is the expandable ProDry-

ingRack EX (PDREX) drying rack featuring 15 shelves. It hit the market about six months ago and sells for \$575.

"The EX expands from 20" to 60"; has 15 levels that hold up to 60 pounds each, and it's mobile. It's really designed for the cabinetmaker and workshop environment," says Robinson.



ProDrying Rack SD (PSDR)

Another option is the PDRTT (\$145), a tabletop rack with 20 shelves. "It assembles in about a minute, making it ideal for small shops," says Robinson.

The new PSDR is a stand for hanging and spraying cabinet doors, which can be used with the company's new Euro Finishing Clips. "The PSDR system was designed for commercial painters to finish kitchen cabinets on the jobsite," says Robinson.

The PSDR sells as a kit for \$425.

PaintLine also offers a small rotating stand, called the SprayTwirly (\$145), to spray cabinet doors.

PaintLine is a brand of Merchandising Systems Inc. which specializes in metal fabrication for material handling and store fixtures.

For more, visit www.thepaintline.com.



PaintLine's offerings include drying racks, material handling solutions, spray stands and more.

BE A BETTER CRAFTSMAN WITH GREX® 23 GA HEADLESS PINNERS

CORDLESS or **AIR**-powered; be a better craftsman with proven precision built GREX tools. It's the same award-winning robust build quality users have trusted for 25 years. GREX continues to lead the industry's innovation of 23 Gauge Pinner. Don't be fooled by look-alikes. The difference is in the details.



P630
No frills workhorse
3/8" to 1-3/16"

P635
The lexus of pinners
3/8" to 1-3/8"

P650L
Trim carpenter's
best friend
3/8" to 2"

P650LXE
The SUPER PINNER
3/8" to 2"

GCP650
The First & Only Cordless
2" 23 Ga Headless Pinner
3/8" to 2"

2019 Tool Awards
Best Nailer
Popular Mechanics

2019 Visionary Awards
Best Power Tool
AWFS

BEST BALANCED
Lightweight & Compact
Cordless Nailer

POWERFUL
Sinks 2" pins into
solid oak or maple

ABOUT 1300
PER FUEL CARTRIDGE
No expiration date.
Practically odorless.

2x AAA
50,000+ cycles
No charging of
expensive batteries



FIND YOUR DEALER

888-447-3926

866-633-7788

www.grextools.com



Techno CNC debuts Venture Plus Series

By Jennifer Hicks



The rigidity of the new Venture Plus Series CNC from Techno CNC Systems provides smooth, crisp edges on processed material, according to the company.

Techno CNC Systems released its new cabinet nested Venture Plus Series CNC router in July, designed to meet high production demands of the cabinet and furniture making industries, according to the company.

Capable of running 2,500 inches per minute, the machine will increase shop throughput for a quick return on investment, according to company president Roy Valentine.

'Plus' could refer to the machine's weight, which Valentine says is a major advantage.

"The lighter the machine construction is, the more vibrations are transmitted through it. This is an 8,000-pound, all-steel machine so that rigidity is the foundation that creates that ultra-smooth edge finish that a lot of manufacturers are looking for with their products," says Valentine.

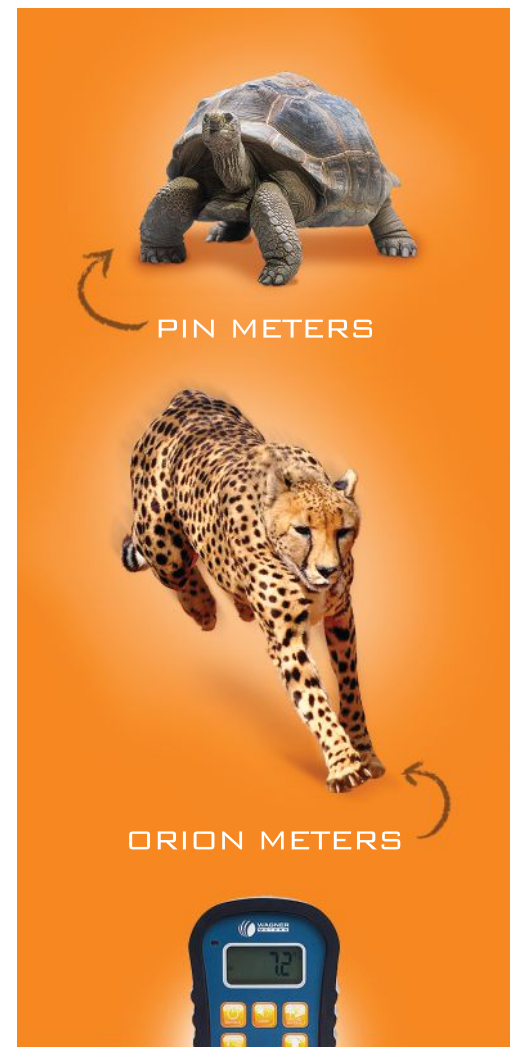
The Venture Plus features a moving gantry to save on floor space, as well as THK rails and bearings.

Standard features also include a 16-hp HSD automatic tool changer spindle, eight-tool rotary carousel with HSK63F tool holders, nine-spindle drill bank, pneumatically operated dust hoods with CNC-controlled gate valves directing debris through a central vacuum manifold, and pneumatic pop-up pins for easy sheet alignment. Vacuum hold downs allow operators to secure sheet goods and various 2D or 3D geometric shapes.

It is powered by 1,500-watt Digital Yaskawa AC servo motors and PC-based Osai controller with a custom Techno interface.

The machine starts at \$75,000.

For more, visit www.technocnc.com. 



Orion® Pinless Wood
Moisture Meters.

10 Times Faster Than
Pin Meters.

FAST. DURABLE. ACCURATE.

AWFS
Visionary
Awards Winner



888-266-8093 | WagnerMeters.com

Apollo Sprayers introduces new Precision-5 Pro series

By Jennifer Hicks

litmy.ru

Apollo Sprayers introduces the new Precision-5 Pro series of HVLP turbo spray paint systems, offering maximum efficiency while eliminating messy overspray, according to the company. The series includes the Pro and Limited Edition models.

Both models can be used with solvent- or water-based, clear, pigmented and specialized coatings, and feature the company's Pressure Control System that controls motor speed, voltage and amperage to adjust automatically for altitude and barometric pressure.

They also feature PowerPause, a patented function that provides a 45 second auto-idle mode to preserve motor life and long-term reliability while permitting the highest available flow pressure, according to the company.

"We found that with the Precision 5 system, because of its digital pressure control, that you can infinitely tune the pressure to the exact material viscosity that you're spraying and that enables you to have the highest efficiency of any turbine system on the market," says Apollo CEO John Darroch.



The Precision-5 Pro sells for \$1,869 with a stainless-steel case, Quadra-Clean 4-stage automotive grade non-washable filtration system, viscosity cup, blow-off tool and a 32' of Apollo's Flex-Air hose.

The Limited Edition sells for \$1,999 and also includes a 1.3mm and 1.5mm needle and nozzle set, and a cleaning kit.

For more, visit www.hvlp.com. 



WoodRiver®

Drilling Your Projects Just Got Easier With The WoodRiver® Drill Press Table

Fits Most 14" And Larger Drill Presses And Features:

- 15½" x 23⅜" x 1" Tabletop With Replaceable Insert
- 24" Double T-Track Simple Fence
- (2) Back-To-Back T-Tracks That Anchor The Fence
- Self-Adhesive Scales
- (2) Saddle Stops That Flip Out Of The Way

WOODCRAFT®
 HELPING YOU MAKE WOOD WORK®

For A Free Catalog Or To Find Your Local Woodcraft Store, Visit woodcraft.com Or Call 800-225-1153.

Follow Us:    

18WN10H



PRO SHOP

with JOHN ENGLISH

Interest rates cloud planning for 2020

Business owners are getting jittery about global recession.

The first shoe fell last December when Fox News, The New York Times and other major outlets ran headlines similar to this one that appeared in Business Insider: "82 percent of CFOs expecting a recession by the end of 2020". The second shoe dropped when major financial publications ran headlines in mid-August about instability in the stock markets, among other signs of economic weakness. The Dow dropped more than 800 points (3 percent) in a single day, there was negative growth for the second quarter in both the British and German econo-

mies (the two largest in Europe), and China reported a 17-year low in the growth of its industrial output.

And while a few analysts downplayed the second yield curve inversion in a year or so (where the return on a 10-year Treasury note fell below the two-year), the vast majority saw this as a definitive prediction of imminent recession. This was the second time a yield curve had taken that road recently. Twice in less than nine months is more than a hiccup, because the past seven recessions were all preceded by exactly this inversion.

So, when it comes to financial planning for 2020, the overriding concern is going to be

interest rates, and their effect on the availability of credit. Higher interest rates and tighter credit will impact woodshop sales, because new home construction and remodeling rely heavily on interest rates. Custom casework suffers first, especially on the high end. And in addition to the housing market, when retail sales contract states and municipalities garner fewer taxes and invest less in infrastructure such as schools. That means fewer institutional casework sales.

The keys to preparing for a recession are to retain as much cash as possible and to pay off – or at least pay down – any high interest debt. There's still a little time left to do that. Variable rate loans should be converted to fixed rate ones, if a banker can be so persuaded.

Invest in equipment?

Curiously, this may actually be an opportune time to invest in major equipment. There's a fine line here, and one that requires a good bean-counter's advice.

If a downturn is protracted, inefficient shops tend to close their doors after about a year. A shop that can rein in payroll while maintaining production levels could be in a good position to survive a downturn, and perhaps even thrive. But the shop needs to be in sound enough financial shape to support an equipment purchase. It must have reliable cashflow

INTRODUCING

CNC SHARK HD5®

BEST IN CLASS:
PERFORMANCE,
VALUE, SUPPORT



COMPLETE YOUR SHOP WITH THE MOST ROBUST AND FEATURE-RICH CNC SHARK EVER!

The CNC Shark HD5® features:

- Exclusive Virtual Zero Unlimited® software
- Includes Vectric VCarve design software
- Use a 2-1/4HP router or our water-cooled spindle
- Steel encased gantry legs for increased rigidity
- Available with extended 50" base and a wide array of accessories
- Made in the USA
- Lifetime tech support
- Mini 4th Axis Kit gives you the ability to create precision turned spindles, pens, or game pieces with intricate carvings and designs*



Next Wave
Automation

www.NextWaveAutomation.com

*MINI 4TH AXIS KIT REBATE OFFER
SAVE \$499.99!

Offer Valid 10/01/19 to 12/31/19



Tooling and Accessories Since 1926

For: Tenoners
Moulders
Shapers
Routers
Planers
Saws



For a complete List of our Tooling, Accessories and Machinery ask for our New Catalog

Specializing in
Corrugated Back &
Williams & Hussey Style
Moulder & Shaper Knives
Ordering is as easy as 1-2-3

1) Complete Service. We supply completely finished knives and templates from dxf files, wood samples or drawings. 2 to 3 day delivery

2) Pre-Roughed knives & Templates.

From a drawing, dxf file or wood sample, we produce pre-roughed knives and templates. Finish grinding is up to the customer. 1 to 2 day delivery.



3) Template Service.

Supply us with your special profile and we will send you a 3/16" thick Acrylic template for your knife grinding machine. 1 to 2 day delivery.

Profiled Knives for all Woodworking Machines
Woodmaster, Belsaw, US Concepts, Shop Fox

If You Know Our Name
You Know Our Number

1 800-SCHMIDT

Charles G. G. Schmidt & Co., Inc.
301 West Grand Ave
Montvale, NJ 07645
Fax 201 391-3565

www.cggschmidt.com



and own a healthy debt to assets ratio before and after the purchase.

Some upgrades have a larger impact. For example, automating processes within the production cycle, especially in terms of material handling (for example, CNC loading and unloading) can have a significant impact on cost per unit.

Upgrading elements of a CNC (for example, faster motors, a larger spindle, an updated control panel, a better tool-changer and adding a vacuum bed) instead of replacing the entire machine can be a thrifty way to increase productivity.

Small- and medium-sized shops might be surprised at how affordable collaborative robots are. These are essentially robotic arms that can sense the presence of a human and work safely beside a woodworker within a single workstation. They can pick up and place parts, spray finish, sand and do a host of mundane, repetitive tasks that free up employees to do more demanding jobs. The investment here starts at about the cost of paying an employee for six months, so the return on investment can be quite rapid.

One other way to curb payroll is to take a long, hard look at outsourcing. As every shop owner knows, we can buy almost any component – cases, doors, drawers, accents, moldings – and have them shipped to the shop or the worksite. RTA (ready to assemble) fittings have come a long way in the past five or so years. It may be time to do a spreadsheet.

Depending on the level of outsourcing, a woodshop may even find itself in the position of being able to reduce its machine inventory and dedicate some of the cost savings toward advertising. Keep in mind Bruce Barton's adage: "In good times, people want to advertise; in bad times, they have to". Barton (1886-1967) was an ad executive and Republican congressman who represented New York in the years right before World War II. He wrote about the necessity to advertise during the Great Depression. He was right.

Insurance issues

The whole idea of building up cash reserves before a downturn in the economy is to be able to ride out the bumps. If sales are happening but payments are slow arriving, there can be some lean months. These don't seem so harsh when a business has a little cash available.

While small bumps in cashflow can be managed, a large financial loss in hard times can be fatal. Accidents happen and having a customer slip on the ice outside the showroom, or a cabinet fall off the wall and injure a client, or perhaps a fire in the spray booth – such events can be, and often are terminal events for a business. So, it's a good idea to review the business's insurance policies periodically.

Having a little cash tucked away can really help here. Insurance tends to be more expensive when it comes to initial coverage, and less so in the umbrella. That is, a policy may have significantly higher coverage and yet cost less than another if the deductibles (the part of a claim that the shop owner covers) are a little higher. There can be quite significant differences in the premium when the deductible is raised even a little bit, and this is an area well worth exploring with an insurance agent. If a shop has some cash reserves, the exposure that comes with higher deductibles is obviously less than it would be if the business is strapped for cash.

ERP software

Affordable enterprise resource planning (ERP) software is a relatively new tool for small to midsize shops. It opens up the potential to use data across all operations to create a more efficient and well-run business. What it essentially does is use a single database for all of the information being generated within the different areas of the business such as production, sales, inventory, office staff, vehicles – anything that can be assigned a number.

Some ERP software is specifically designed for cabinet or furniture

businesses, while other programs are more generic and require a little adaptation. Some works with the shop's existing CAD design program and can bring together diverse facets such as sheet stock inventory and optimizing for the CNC. It can, for example, help a salesperson to steer customers in a direction that uses more of the inventory and resources the shop already owns, rather than having to buy case quantities of product for a custom solution that may not get entirely used up in the course of a single job. Or it can let a project manager know that more drawer slides have been ordered and even though they're not logged into inventory yet, they will be on site before the job needs them. That way, he/she doesn't order parts or components that will tie up cash by sitting on a shelf. There are shades of lean manufacturing's just-in-time philosophy here, and in fact ERP and lean manufacturing are very compatible concepts.

ERP software can usually grant different levels of access to different employees, depending on their needs. That way, everyone doesn't need to be trained in every aspect of the program, and unqualified people are not able to make binding decisions that are beyond their purview.

Most ERP software can be either network or cloud-based, so security and availability issues can be addressed appropriately. For example,

an installer with the right level of access can use a phone on the jobsite to check where a missing part might be, while a CEO can gather all the numbers she needs while sitting in an annual general meeting, even if there's a power outage at the office and the computers are down.

There's a general feeling that low-end ERP software can actually end up costing more than a better program because of the time involved in automating functions or in working around functions that are missing. An ERP package needs to be able to grow with the business, and the more data it processes (that is, the more areas of the business that are included), the more useful and accurate it will be. It's a good idea to have one or two people (preferably the IT team) be in charge of an ERP program. As with any management tool, the fewer people who can change the structure, the better. But each department also needs good representation because these kinds of management programs can become lopsided if they aren't democratic. And department heads can help tweak the program by offering feedback. This allows the ERP data to become more customized for a particular woodshop, rather than remaining industry generic.

However, many businesses have invested heavily in ERP software only to discover that

it requires an awful lot of time and effort to set up and maintain. If the program isn't well-suited to the organization, or is difficult to use, this can be an expensive investment in a pipe dream.

Shop carefully. **W**

NAFF adds three new board members

The North American Forest Foundation welcomes three new board members, Jesper Bach, Andy Johnson and Cindy Squires.

"This year, the North American Forest Foundation emerged from what used to be called the Hardwood Forest Foundation. This more inclusive name allows the organization to work on a more comprehensive approach to promoting the entire forest products industry through its educational programs. The new board members will help guide the North American Forest Foundation as it branches in this new direction," the trade group said in a statement.

For more, visit www.northeramericanforestfoundation.org.

Honestly Better.

No smoke and mirrors here.

Just the highest quality components, brilliant engineering, and meticulous attention to detail.

Designed, sold and supported by our Columbus, Ohio based team of passionate CNC gurus.

When only the best will do...
Axiom Precision CNC.



1-844-642-4902
www.axiomprecision.com



PICK AND CHOOSE

**The world is your oyster when it comes
to innovative hardware products**

By John English

One of the great advantages of a global economy is that consumers anywhere can experience the very best the world has to offer. Whether that's Italian design, American manufacturing or perhaps German or Swiss engineering, such a huge market ensures that the highest quality products achieve the widest distribution.

Accuride (accuride.com) fits that mold. The California company describes itself as "a global presence with extensive resources, a deep understanding of design and manufacturing, and a solid reputation as a pioneer in the development of quality movement solutions". Woodshops that don't generally buy in bulk directly from a manufacturer will appreciate the convenience of Accuride's new, direct-buy, online store. Woodworkers can now access a wide array of drawer slides and other hardware and do so in sensible quantities. There's a distributor's link where a shop can find a local source for anything from telescopic slides for kitchen cabinets to weather-resistant tracks for outside fixtures.

Blum Inc. (blum.com) manufactures hinge and drawer systems for the North American market in Stanley, N.C. A good example of the company's innovative bent is the Aventos HK hardware, which was first introduced in 2017. This allows the doors on wall cabinets to pivot up, rather than being hinged to swing left or right. As people age, their range of motion changes, and Blum notes that Aventos accommodates that because the door stays where it's placed, within reach.

Another Austrian drawer slide manufacturer, Fulterer (fultererusa.com) was founded half a century ago and has warehouses in High Point, N.C. and Ontario, Calif. to serve the North American casework and furniture markets. There's also a distribution center in Lustenau, Austria to support European woodworkers. In fact, Fulterer slides are sold in more than 60 countries. So, it's no surprise that this innovative business constantly shakes things up a bit. Among its latest releases is the FR 5619, a ball bearing side mount drawer slide that's designed for

heavy-duty usage (up to 225 lbs.). The slide incorporates an anti-tilt mechanism and comes in 16" to 28" lengths.

King Slide USA (kingslide.com) offers the Simlead metal drawer system, featuring push to open and close technology, and a vibration safety design. This means the drawers won't open when there's a whole lot of shaking going on, perhaps during an earthquake.

High-class hinges

Grass America (grassusa.com) recently introduced four new pie-cut hinges that offer a perfect solution for those pesky corner cabinet doors. The hinges provide wide access to the interior of the cabinet, which can work extremely well for shops that are installing lazy Susan shelving. The Tiomos PCC is for doors 16 to 24mm thick, and there is a self-closing option. The Nexis PCC handles doors from 16 to 22mm, while Nexis 21 PCC is for 19 to 24mm thicknesses. And the 975 VZ PCC has a shallow profile that won't interfere with revolving shelves.

The Titus Group (titusplus.com) has introduced a wide-opening hinge for easy corner cabinet access. The T-type pie-cut corner hinge uses a standard 35mm drilling pattern and offers easy door alignment. It's a two-step hinge that provides a wide angle that grants full access to any cabinet with bi-fold doors. It fits standard hinge cup drilling patterns, so it's CNC friendly.

Samet (samet.com.tr), based in Istanbul, Turkey, distributes to more than 80 countries on five continents. The company's new Supreme soft-close concealed hinge is designed to deliver slow and silent closure when used with face frame furniture and cabinet doors. It has an aesthetically pleasing minimalist design, and its automatic motion can be turned on or off as required, simply by turning a screw. A well-engineered track mechanism allows the woodworker to easily attach and detach the door to and from the cabinet. The doors can be adjusted quickly in six directions, and the Supreme comes in both 1-1/4" and



The Industry Leader in Dust Collection

5HP HIGH-VACUUM

DESIGNED FOR CNC MACHINES



- Ideal for cabinet shops
- High CFM, small footprint
- Superior filtration
- High pressure system maximizes performance
- Air Locks and Hoppers for bulk waste removal available.

Cyclone and waste bins can be located outdoors for NFPA compliance.



The Oneida Air Systems **High-Vacuum** dust collection system was designed to work with CNC machines which need more static pressure for the effective cleaning of cutter heads.

Ask about our complete line of ductwork and ductwork design services!

1-800-732-4065 • oneida-air.com

MADE IN THE USA SINCE 1993





Decorative knobs and handles from Osborne; Accuride's under stair and microliving (opposite page) storage solutions, Kessebohmer's Free Fold.

1/2" overlay choices. Samet can be contacted through O'BH Associates in Texas (obhassociates.com).

Kessebohmer (cleverstorage.com) has created the FreeLift family of specialty hinges. They deliver silky smooth opening and closing action for wall cabinets, with a wide range of flap sizes and weights. The easy and harmonious movement is quiet, soft and effortless. The Free Fold version opens a pair of horizontal doors much as one might close a book lying open on a table. The Free Slide simply slides the door panel forward a little, and then way up in a vertical plane and out of the way.

Free Swing swings the bottom of the door out and up, while Free Flap simply swings it up.

Pulls, knobs and lifts

Osborne Wood Products in Toccoa, Georgia, is a family owned and operated maker of decorative wood products. The company offers a number of wooden drawer pulls and knobs, some of which are hand carved, and they're available in different species.

New Jersey-based Dimora Brands has just announced the acqui-



EnRoute®

A leading provider of CAD/CAM software

Subscriptions Only \$89.95 / month

Create Endless Woodworking Applications:
inlays, mouldings, textured panels, 3D
millwork, cabinets and much more)



FIND YOUR MATCH!



Same-day shipping

PVC & veneer banding in a wide selection of colors

In-house custom
slitting & gluing

Supplying the U.S.
& Canada for more
than 25 years!

Questions?
Call 800.727.0917
to speak with a live,
non-automated
team member!

www.dc-dist.com
Fax: 888.633.5923



The Axilo 78 from Häfele allows installers to easily adjust the height of base cabinets.

tion of Brooklyn's famed Watermark Designs. Dimora already owns Top Knobs, Vesta Fine Hardware, Water Street Brass, and Hardware Resources. This means the company now offers high-end cabinet hardware, door hardware and plumbing fixtures. Other brands in this stable include Atlas Homewares, Du Verre, Jeffrey Alexander and Elements.

Anything that helps corner cabinets become more useful is welcome in this industry. Richelieu Hardware's new Qanto electric lift works well in base corner cabinets. There are two trays that rise from inside the cabinet at the push of a button, making everything easy to reach. Push the button again and they lower back down.

Richelieu (www.richelieu.com) has also introduced Autore, a collection of more than 400 pulls and knobs created by 16 leading European designers.

Horton Brasses (horton-brasses.com) in Cromwell, Conn. still uses actual antique hardware for its dies and patterns, and employs many of the same painstaking methods used by early American craftsman.

The company's new Burbridge Cabinet Pulls come in a variety of sizes and four different finishes. Its new Mackintosh knob and backplate was inspired by the work of Charles Rennie Mackintosh and developed in collaboration with Crown Point Cabinetry.

Clever solutions

Häfele America (hafele.com) has an ingenious new tool called the Axilo 78. It's an adjusting tool that allows a cabinetmaker to reach in and make height adjustments at the back of a cabinet that is resting on the company's plinths (short adjustable legs). With this tool, there's no need to drill holes, lay on your back, or try to use wrenches in a confined space. Just turn the handle to raise or lower the cabinet, or use a drill and a hex driver that fits into the top of the tool.

CompX Security Products (compx.com) has introduced ecoForce, a mechanical push-button cabinet lock that doesn't require any batteries. The installer sets a user code from one to five



Salice's Pin system can be used to support shelves, knives and wine bottles (below).

digits long, and ecoForce even has a code recovery feature and a key override. The SlamCAM version of this lock is a spring-loaded latch, where one just closes the cabinet door or drawer with no need to return the knob to the locked position. And the manual locking version requires the knob to be rotated into the unlocked and locked positions. ecoForce is ideal for medical supply cabinets and other institutional applications.

A couple of new floating shelf brackets from A&M Hardware (aandmhardware.com) deliver exceptional support for countertop, cabinet, shelf or island installations. The Concealed (C) and Extended Concealed (EC) brackets have a 1/2" support arm and a wide, flat top that is relatively easy to conceal within a shelf.

Cabinet Parts (cabinetparts.com) is a distributor of virtually all of the brands mentioned earlier. In fact, the company carries more than 60 lines including drawer slides, hinges, decorative pulls and knobs, drawer organizers, shelf supports, lighting, sliding door hard-

ware and laminates. The company also supplies drawer boxes in solid birch and maple, and in vinyl wrap.

Hettich America (hettich.com) offers a number of clever solutions for common challenges: the Silent System for drawers and full-size track doors; WingLine for folding, sliding doors, and InnoTech Atira, which lets a woodshop offer drawers in a number of different and very stylish materials and finishes.

Salice (salice.com) offers the Pin system, essentially a track that can be surface mounted or set in a groove. Studs pop into a narrow slit in the face of the track and lock in place. These can be short studs for knives, medium for bottles, and long to support shelves. [W](http://www.woodshopnews.com)





LIMTECH

INDUSTRIES

704-200-9964

"Market's best in class cnc"



\$54!

- Syntec industrial controller – non PC/Windows reliant
- Servo-gearbox-helical rack
- Brand name components from your local suppliers!
- HSD 12hp spindle

- 8-position tool changer
- HSD 9 V-drills on 32 mm
- 10hp vacuum pump
- 4'x8' phenolic table top

Info@Limtechindustries.com



Grizzly

Industrial, Inc.®

PURVEYORS OF FINE MACHINERY®,
SINCE 1983!

14" SUPER HEAVY-DUTY RESAW BANDSAW WITH FOOT BRAKE

- Motor: 2 HP, 110V/220V, single-phase, 15A/7.5A, prewired 110V
- Table size: 21 $\frac{3}{4}$ " L x 16 $\frac{1}{8}$ " W
- Table tilt: 5° L, 45° R
- Floor-to-table height: 37"
- Max. cutting width: 13 $\frac{1}{2}$ "
- Max. cutting height: 14"
- Blade size: 120" (1 $\frac{1}{8}$ " to 3 $\frac{3}{4}$ ")
- Blade speed: 2820 FPM
- Overall size: 29" W x 32 $\frac{1}{2}$ " D x 76" H
- Footprint: 24" L x 18" W
- Approx. shipping weight: 388 lbs.

14" RESAW
HEIGHT!
MADE IN
AN ISO 9001
FACTORY



G0817 ONLY \$1395⁰⁰



19" 3 HP EXTREME-SERIES® BANDSAWS

- Motor: 3 HP, 220V, single-phase
- Precision-ground cast-iron table size: 26 $\frac{3}{4}$ " L x 19" W x 1 $\frac{1}{2}$ " H
- Cutting capacity/throat: 18 $\frac{1}{4}$ "
- Max. cutting height: 12"
- Blade size: 143" L (1 $\frac{1}{8}$ "-1 $\frac{1}{4}$ " wide)
- Blade speeds: 1700 & 3500 FPM
- Approx. shipping weight: 512 lbs.

MADE IN AN ISO
9001 FACTORY!

12" RESAW
HEIGHT!



G0514X2B
shown

SINGLE-PHASE WITH FOOT BRAKE
G0514X2 ONLY \$1799⁰⁰

SINGLE-PHASE WITH MOTOR BREAK
G0514X2B ONLY \$1899⁰⁰



PROFESSIONAL TILTING SPINDLE SHAPERS

- Motor: 5 HP, 220V, single-phase, 25A (G5913Z); 7 $\frac{1}{2}$ HP, 220V/440V*, 3-phase, 20A/10A (G7215Z)
- Table counterbore: 7" x 5 $\frac{1}{8}$ " D
- Footprint: 26" L x 27" W
- Precision-ground cast iron table size: 28" x 35 $\frac{1}{2}$ "
- Spindle travel: 3 $\frac{1}{4}$ "
- Spindle tilt: 45°
- Spindle sizes: 3 $\frac{3}{4}$ ", 1", and 1 $\frac{1}{4}$ "
- Spindle speeds: 3600 – 10,000 RPM
- Spindle capacity under nut: 5 $\frac{1}{8}$ " (1 $\frac{1}{4}$ " spindle)
- Approx. shipping weight: 710 lbs. (G7215Z), 692 lbs. (G5913Z)

1
TILTING
SPINDLE!



G5913Z
shown

5 HP, SINGLE-PHASE
G5913Z ONLY \$3395⁰⁰

7 $\frac{1}{2}$ HP, 3-PHASE
G7215Z ONLY \$3395⁰⁰



17" HEAVY-DUTY EXTREME BANDSAWS

EXTREME
SERIES

- Motor: 2 HP, 110V/220V, single-phase, 1725 RPM, TEFC
- Precision-ground cast-iron table size: 23 $\frac{3}{8}$ " x 17 $\frac{1}{4}$ " x 1 $\frac{1}{2}$ "
- Max. cutting height: 12"
- Blade size: 131 $\frac{1}{2}$ " L (1 $\frac{1}{8}$ "-1" W)
- Blade speeds: 1700 & 3500 FPM
- Quick-release blade tension lever
- Approx. shipping weight:
- 418 lbs. (G0513X2), 434 lbs. (G0513X2F), 460 lbs. (G0513X2BF)



Fine
WoodWorking
MAGAZINE
BEST VALUE
2005

MADE IN AN ISO
9001 FACTORY!



G0513X2
shown

WITH CAST-IRON WHEELS

G0513X2 ONLY \$1195⁰⁰

WITH FOOT BRAKE

G0513X2F ONLY \$1399⁰⁰

WITH FOOT BRAKE & MICRO-SWITCH (220V)

G0513X2BF ONLY \$1499⁰⁰



24" INDUSTRIAL BANDSAWS

- Motor: 5 HP, 220V, single-phase or 7 $\frac{1}{2}$ HP, 220V/440V*, 3-phase
- Precision-ground cast-iron table size: 33 $\frac{1}{2}$ " x 23 $\frac{5}{8}$ " x 2"
- Table tilts 45° for bevel cuts
- Floor-to-table height: 34 $\frac{1}{2}$ "
- Cutting capacity/throat: 24 $\frac{1}{2}$ "
- Maximum cutting height: 16 $\frac{1}{4}$ "
- Blade size: 180" L (1 $\frac{1}{4}$ "-1 $\frac{1}{2}$ " W)
- Blade speed: 5300 FPM
- Shielded and permanently lubricated bearings
- Overall size: 48" W x 32" D x 83 $\frac{1}{2}$ " H
- Approx. shipping weight:
- 951 lbs. (G0568), 962 lbs. (G0569)

MADE IN
AN ISO
9001
FACTORY!



G0569
shown

5 HP

G0568 ONLY \$3250⁰⁰

7 $\frac{1}{2}$ HP

G0569 ONLY \$3250⁰⁰



INDUSTRIAL-DUTY TILTING SPINDLE SHAPER

EXTREME
SERIES

- Motor: 7 $\frac{1}{2}$ HP, 220V/440V*, prewired 220V, 3-phase, 3450 RPM, 20A/10A
- Spindle travel: 6 $\frac{1}{8}$ "
- Spindle tilt: -5 to +45°
- Spindle size: 1 $\frac{1}{4}$ "
- Spindle length: 7"
- Spindle speeds: 3900, 5000, 7200, and 9400 RPM
- Maximum cutter diameter: 10"
- Precision-ground cast iron table size: 47 $\frac{1}{4}$ " x 35 $\frac{1}{2}$ "
- Fence: wood, independently adjustable
- Footprint: 33" L x 29 $\frac{1}{2}$ " W
- Approx. shipping weight: 1096 lbs.



G0608X ONLY \$4750⁰⁰



*To maintain machine warranty, 440V operation requires additional conversion time and a \$250 fee. Please contact technical service for complete information before ordering.

PRICING CODE
19WOODS
MENTION THIS CODE
WHEN PLACING YOUR ORDER
20568R

1-800-523-4777

2 GREAT SHOWROOMS!
BELLINGHAM, WA • SPRINGFIELD, MO

TECHNICAL SERVICE:

570-546-9663
FAX: 800-438-5901

- ALMOST A MILLION SQUARE FEET PACKED TO THE RAFTERS WITH MACHINERY & TOOLS
- 2 OVERSEAS QUALITY CONTROL OFFICES STAFFED WITH QUALIFIED GRIZZLY ENGINEERS
- HUGE PARTS FACILITY WITH OVER 1 MILLION PARTS IN STOCK AT ALL TIMES
- TRAINED SERVICE TECHNICIANS AT BOTH LOCATIONS • MOST ORDERS SHIP THE SAME DAY
- **BUY DIRECT & SAVE!**



FREE 2019 CATALOG

OVER 810 PAGES OF HIGH QUALITY MACHINES & TOOLS AT INCREDIBLE PRICES

ULTIMATE 12" JOINTERS

- Motor: 3 HP, 220V, single-phase, TEFC, 16A
- Cutterhead: (4) HSS knives, 12" x 1 $\frac{1}{16}$ " x $\frac{1}{8}$ " (G9860); (84) indexable carbide inserts (G9860ZX)
- Cutterhead dia.: 4"
- Cutterhead speed: 5900 RPM
- Max. depth of cut: $\frac{3}{16}$ "
- Max. width of cut: 11 $\frac{13}{16}$ "
- Precision-ground cast iron table size: 12 $\frac{1}{2}$ " x 80"
- 23,600 CPM (G9860); 35,400 CPM (G9860ZX)
- Approx. shipping weight: 1265 lbs. (G9860), 1241 lbs. (G9860ZX)

FREE PAIR OF SAFETY
PUSH BLOCKS

MADE IN AN
ISO 9001 FACTORY!



G9860
shown

4-KNIFE CUTTERHEAD

G9860 ONLY \$4195⁰⁰

SPIRAL CUTTERHEAD

G9860ZX ONLY \$4995⁰⁰



THE ULTIMATE 16" JOINTERS

- Motor: 5 HP, 220V, single-phase, 25A (G9953ZX); 5 HP, 220V/ 440V*, 3-phase, 14A/ 7A (G9953ZXF)
- Precision-ground cast iron table size: 16 $\frac{1}{4}$ " x 99 $\frac{1}{4}$ "
- Cutterhead speed: 5000 RPM
- Max. depth of cut: $\frac{3}{16}$ "
- Bevel jointing: 0–45° L/R
- Center mounted fence: 6 $\frac{3}{8}$ " x 43 $\frac{1}{4}$ "
- Approx. shipping weight: 1742 lbs. (G9953ZXF), 1719 lbs. (G9953ZX)

MADE IN AN ISO
9001 FACTORY!



G9953ZX
shown

3-PHASE, SPIRAL CUTTERHEAD

G9953ZXF ONLY \$6995⁰⁰

SINGLE-PHASE, SPIRAL CUTTERHEAD

G9953ZX ONLY \$7995⁰⁰



10 HP CYCLONE DUST COLLECTOR

- Motor: 10 HP, 220V/440V*, 3-phase, TEFC Class "F"
- Impeller size: 18 $\frac{1}{2}$ " steel radial fin
- Air suction capacity: 4029 CFM @ 4.3" SP
- Maximum static pressure (inches of water): 16.8"
- Filter: 99.9% efficiency from 0.2-2 microns
- Filter surface area: 398 sq. ft.
- Collection drums: Steel, 55 gallon x 2
- Sound level: 87-90 dB
- Overall size: 76 $\frac{3}{4}$ " W x 60" D x 139 $\frac{3}{8}$ " H
- Approximate shipping weight: 975 lbs.



G0638 ONLY \$4595⁰⁰



10 HP, 3-PHASE DUAL-FILTRATION HEPA CYCLONE DUST COLLECTOR

- Motor: 10 HP, 220V/440V*, 3-phase, 30A/15A, TEFC Class "F"
- Intake hole size: 12"
- Max. static pressure (inches of water): 16.8"
- Primary filter: 99.9% at 0.2-2 microns
- Secondary filter: HEPA rated 99.97% @ 0.3 microns
- Airflow capacity: 4029 CFM @ 4.3" SP
- Approx. shipping weight: 1555 lbs.

MADE IN AN ISO
9001 FACTORY!

HEAVY-DUTY
STAND INCLUDED



G0638HEP ONLY \$5795⁰⁰



12" SLIDING TABLE SAW WITH SCORING BLADE MOTOR

- Main motor: 7 $\frac{1}{2}$ HP TEFC, 220V/440V*, 3-phase, prewired for 220V
- Scoring motor: 1 HP TEFC, 220V/440V*, 3-phase
- Main table size: 35 $\frac{1}{4}$ " x 21 $\frac{1}{2}$ "
- Main blade size: 12", Arbor: 1", Tilt: 0–45°
- Depth of cut @ 90°: 3 $\frac{1}{16}$ ", @ 45°: 2 $\frac{1}{8}$ "
- Scoring blade size: 4 $\frac{3}{4}$ ", Arbor: 20mm, Speed: 8000 RPM
- Scoring blade tilt: 0–45°
- Sliding table size: 126" x 14"
- Approx. shipping weight: 1498 lbs.



G0699 ONLY \$7295⁰⁰



14" SLIDING TABLE SAW WITH DIGITAL FENCE

- Main motor: 10 HP, 220V/440V*, 3-phase, 26A/13A
- Scoring motor: 1 HP
- Main blade size: 14"
- Main blade tilt: 0–45°
- Depth of cut at 90°: 4"
- Depth of cut at 45°: 2 $\frac{3}{4}$ "
- Main blade speed: 3000, 4000, 5000 RPM
- Main blade arbor: 1"
- Scoring blade size: 120mm (4 $\frac{3}{4}$ ")
- Scoring blade arbor: 20mm
- Scoring blade speed: 8000 RPM
- Scoring blade tilt: 0–45°
- Sliding table size: 15 $\frac{1}{2}$ " x 126"
- Maximum rip capacity: 51 $\frac{1}{2}$ "
- Length of crosscut: 126"
- Overall size: 132" W x 155 $\frac{1}{4}$ " D x 65 $\frac{1}{4}$ " H
- Approx. shipping weight: 2176 lbs.

MADE IN AN ISO
9001 FACTORY

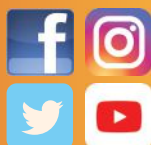
New!



G0853 ONLY \$12,795⁰⁰



Due to rapidly changing market conditions and tariffs, our advertised prices may be increased at any time without prior notice.



VIEW VIDEOS AT
grizzly.com

grizzly.com®
OVER 15,000 PRODUCTS ONLINE!

Buy Now
Pay Later
with **affirm**







A REBRANDING EFFORT

There's a new shop in Rhode Island that's been around for several decades as Yoffa Woodworking begins its next chapter as Calderwood Custom Millwork

By Jennifer Hicks
Shop Photos by Michael Gordon



Adam Swist (left and previous page) and Jeremy Weinand assembling cabinets in the Newport, R.I. shop.

Calderwood Custom Millwork in Newport, R.I. is a relatively new company that stems from a more familiar one that originated in the Ocean State almost 40 years ago. Known previously as Yoffa Woodworking, the custom woodworking shop rebranded in May 2018 after the founder's sale to Dan Kinsella of Kinsella Building Co.

Working closely with clients, Calderwood – which is based on a name in the new owner's family – maintains the same philosophy as Yoffa, focusing on superior craftsmanship so custom pieces maintain their beauty and integrity for generations. It has five employees, four of whom worked there before the sale.

Shop manager Mike Menard speaks for the team by expressing his pride to be part of the old company and to move forward with the new one.

"We maintain our same values, customer service, passion for quality and look forward to serving the customers in our community. We are proud to be providing more than cabinets in that aspect," says Menard.

A loyal crew

Joe Yoffa founded the company in 1984. As Menard explains, Yoffa earned a fine arts degree at what's now known as the University of Massachusetts at Dartmouth then worked independently as a field car-

penter in the early '80s until he had enough work to open a shop.

Menard joined in the late '90s as an apprentice at the age of 18 after graduating Rogers Vocational High School in Newport. He's in his 27th year with the company.

"This was my first job. Joe had been working here alone before I came along. It was just the two of us for the first several years. We grew to four employees by the early 2000s and it has pretty much been run the same way ever since, working with architects and a core of general contractors," he says.

Other team members include shop foreman Karl Cressotti, cabinet-makers Adam Swist and Jeremy Weinard, and bookkeeper Linda Scott who has earned the nickname "den mother" for helping keep the guys organized. Weinard is the only employee who was not part of Yoffa; he joined in April to fill a vacancy.

Prime location

Although it operates from the smallest U.S. state, the business is fortunate to be surrounded by cities and towns with residents in the market for handcrafted cabinetry. The yacht-filled harbor around Newport itself illustrates lucrative jobs that are likely within reach through proper networking.



Shop foreman Mike Menard (left) and chief cabinet maker Karl Cressotti.

"Early on we only worked with local contractors and they were always getting local jobs, so there really wasn't a need to expand far because there was so much work here in our basic circle," says Menard.

Menard says residential clients tend to prefer contemporary designs with minimal trim. The shop has been outsourcing its finishing for 20 years and painted cabinetry is a top request, followed by a clear finish on quarter-sawn white oak.

Calderwood's commercial contracts include a bar in downtown Newport, specialized details on a commercial vessel, and cabinetry for yacht clubs and clothing stores.

"Having some commercial work is actually really nice for us because it serves as a showpiece being so close to us. Nobody's ever going to see our work in someone else's house except for the family and friends of whoever owns that house. But when we build a bar or put some cabinets in a store and somebody comments on them, they will say this local shop built them," says Menard.

Navigating today's market

Annual job volume depends on the types of jobs that come through the door, and those can range from a window repair on an old Colonial home to a millwork package for an entire 10,000-sq.-ft. mansion.

"It can really vary. Right now, we're doing two brand new homes back to back. They are large jobs that will take five months each. We will do some smaller projects in between," says Menard.

It was different during the Great Recession, Menard explains. "The bigger jobs at that point were harder to get so we ended up doing more smaller jobs per year. It was just more difficult. It's easier to do one big job and focus and sink your teeth into it than do small jobs constantly as far as over an entire year."

Part of the company's quality control is building with mortise and tenon joinery. The shop has also made the decision to avoid automation. If any CNC work is needed, the shop will sub it out.

Menard says the shop is doing some more cabinet refacing recently.

"We never really did that before and I don't know why because we're perfectly equipped for it. We build all of our own doors right

Lamello

50th Anniversary

"The P-System enabled us to build a strong and beautiful waterfall edge with zero visible fasteners. The P-System saved time and reduced risk of mistakes, plus the ability to flat-pack saved on shipping."

Brock Brandenburg – Owner Klevr Furniture
www.csaw.com/lamello-zeta-p2-klevr-case-study

Anniversary offers



Designation	Part no.
Zeta P2 Anniversary Edition with carbide cutter	101402J
Zeta P2 Anniversary Edition with diamond cutter	101402DJ
P-System connector assortment professional	145312
P-System connector assortment basic	145314



Learn more about Lamello from the industry experts at **Lamello USA**,
a division of Colonial Saw: 781.585.4364 (EAST) - 909.390.5465 (West)



www.csaw.com/lamello



The shop's extensive portfolio includes this bed supported by two storage units (left) and a handsome bathroom vanity.

LAGUNA

Building Award Winning Machines Since 1983

Machines For Every Level of Production



SMARTSHOP M
Starting At **\$31,370**



SMARTSHOP 5 AXIS
Starting At **\$150,000**

2072 Alton Parkway, Irvine, CA 92606

825 Bistline Drive, West Columbia, SC 29172

CNC | Sanders | Dust & Fume Collectors | Lasers | Plasmas | Saws
1.800.234.1976
lagunatools.com



Cressotti (green shirt, top photo) uses the shop's Linmec long bed joiner; Menard (white shirt) changes a saw blade on a SCMI SL12 slider, and a simple solution for storing shaper tooling.

here. The homeowner didn't have to rip out the kitchen. We didn't have to reface the actual cabinetry, the cabinet boxes were in good enough shape to keep so we just added a few things like lights and rails, things like that, and the paint color they wanted."

Harnessing efficiency

Given its space constraints, the shop doesn't have room to handle an increase of volume, employees or equipment, so goals encompass improving workflow in other ways such as streamlining shop setup from fabrication to assembly.

"Our goal currently is just to be able to do

the jobs we're working on more efficiently. Then we can maybe do one more job a year because we've gotten them done faster. But we don't compromise quality for speed," says Menard.

"We're at a very steady, comfortable pace with the amount of work that we have. We are not hurting and we're not to the point where we're overwhelmed. It's a good place to be right now. We already have the next job lined up after the first job."

Contact: Calderwood Custom Millwork, 62 Halsey St., St. 1, Newport, RI 02840. Tel: 401-846-7659. www.calderwoodmillwork.com 



CASTLE CSI-1.5D

Reduce Labor Costs!
Cut Assembly Time in Half.



Cut a Castle low angle pocket and
insert a flush, stackable screw in
1.5 seconds.

Not Sure?
Try it Risk Free
for 45 Days on Us.
(Details on Website)



THE CASTLE POCKET



THERE IS NO SUBSTITUTE

CASTLEcsi.com
800-532-CASTLE

DOING MORE WITH LESS

THE SMALL-SHOP CNC MARKET IS BURSTING WITH AFFORDABLE,
USER-FRIENDLY, MULTI-PURPOSE OPTIONS BY JOHN ENGLISH



Custom Woodwork
Studio & Design

anything is
possible





Small-shop CNCs used to be all about the budget. For the past decade woodworkers have watched as manufacturers concentrated on affordability and endurance as the watchwords. They were trying to deliver tough, reliable entry-level machines in a very competitive market. Now, those basic qualities are fairly universal and the next generation of machines are beginning to offer something new – a much higher level of versatility. That takes the form of either portability (many new machines are specifically targeted at jobsite use) or adding options such as toolbars, turning abilities and aggregate use to both benchtop and small floor models. Either way, woodworkers are winners as these machines continue to be better engineered, more affordable and more flexible. And it's not just the hardware. Better software is also changing the game.

Take, for example, the new CNC Shark HD5 from Next Wave Automation (nextwaveautomation.com). The company says that this is its most robust and feature-rich machine to date, but that may not be what sets it apart from the herd. The HD5 comes with Next Wave's new Virtual Zero Unlimited software package. This adds a high degree of versatility

by allowing a woodworker to map the entire surface of the workpiece (a board, a part, or just plywood) by registering an unlimited number of reference points. The program then uses these points to auto-adjust the G-code to conform to the actual surface of the material. This eliminates problems caused by even slightly warped or bowed material, and also allows a user to maintain a constant cutting depth on oddly or intricately shaped projects. That's something that would usually require the creation of a CAD 3D model.

Next Wave has also introduced Ready2Control control panel software for multiple machine operation and a new website that includes a vastly improved visitor experience, including a Dealer Locator and a wide array of project plans and information.

ShopBot Tools (shopbottools.com) has come up with a new and much more versatile way for woodworkers to get their hands on a CNC than the traditional financing route. The company has introduced a simple and straightforward subscription service that provides shops with the CNC machine itself, plus everything it takes to make it work. A subscription begins with one monthly payment and includes no shipping or cancellation fees. There's a minimum three-month commitment, and after that a shop can trade up, trade down, or cancel the subscription at



The Shaper Origin looks like a router but does a whole lot more.

any time. The program includes Shop-Bot's Handibot, Desktop, Desktop Max and Buddy models.

At AWFS, Legacy Woodworking Machinery (lwmcnc.com) debuted its new Renegade CNC that allows woodshops to create complex joinery, process sheet stock, and create turned parts such as stair spindles, table legs and the like. There's a tool-changer, an industrial controller, and a few added extras. Those include Legacy's automated tool measurement system and Delta's motion control algorithm that delivers faster, smoother cornering. But what really sets the machine apart is the Turning-Indexing system, which adds a whole new dimension to the type of jobs that small- and medium-sized shops can handle efficiently.

AWFS also featured the Yeti Smartbench from Yeti Tool (yetismartbench.com). The SmartBench changes some ground rules by letting woodworkers bring large-scale and very precise machining to the jobsite. Features include a color touchpad and a hand-held control unit that can receive jobs and cutting instructions through Wi-Fi or a USB drive. It can handle full 4' x 8' panels, with a cutting height (Z axis) of almost 6". Plus, longer items can be tiled in the software allowing the shop to machine products that are longer than 8'. It's dust collection ready, and it can drill, pocket, mortise, carve or dado parts.

MORE MUSCLE

Laguna Tools (lagunatools.com) recently made some serious upgrades to its workhorse, the SmartShop M. The new M2 comes with an eight-position automatic tool changing system, four to six zone vacuum table, all-steel gantry, direct drive motors with Shimpo gearboxes, and a pod-ready phenolic vacuum table. Laguna has also redesigned its SmartShop II CNC router.

Velox CNC (veloxcncrouters.com) offers seven table sizes at or under 5' x 5', and some full-size (4' x 8' and 5' x 10') models, too. These machines are designed, manufactured, assembled and tested in the U.S.

Axiom Precision (axiompprecision.com) offers four small-shop models. The newest is the entry-level i2R, which comes with 24" x 24", 24" x 36" and 24" x 48" table configurations and an optional stand. Each model comes with prismatic guides, ball screws, and a DSP pendant controller. Targeted specifically at first-time CNC users, the new i2R lineup is supported by a comprehensive manual and video library, which are both intended to dramatically shorten a new user's learning curve. The company's Basic and Pro+ Series upgrade the action with options such as greater Z travel, USB storage, electro spindles and fourth axis capabilities, depending on the model.

Axiom also offers a full line of accessories including bits, dust col-

THE PERFECT CUT, THE PERFECT EDGE

We have the right machine for every woodworking shop. Altendorf's inter-nationally renowned sliding table saws and Hebrock's edgebanders, enable panels to be processed to perfection. Both brands are renowned for their high processing quality and precision. Now operating together under the umbrella of the **ALTENDORF GROUP**, they combine their strengths for the woodworking industry worldwide.

Current owners:

Register your machines for first-class parts and support-service now at altendorfgroupamerica.us/online-registration



Sliding Table Saw

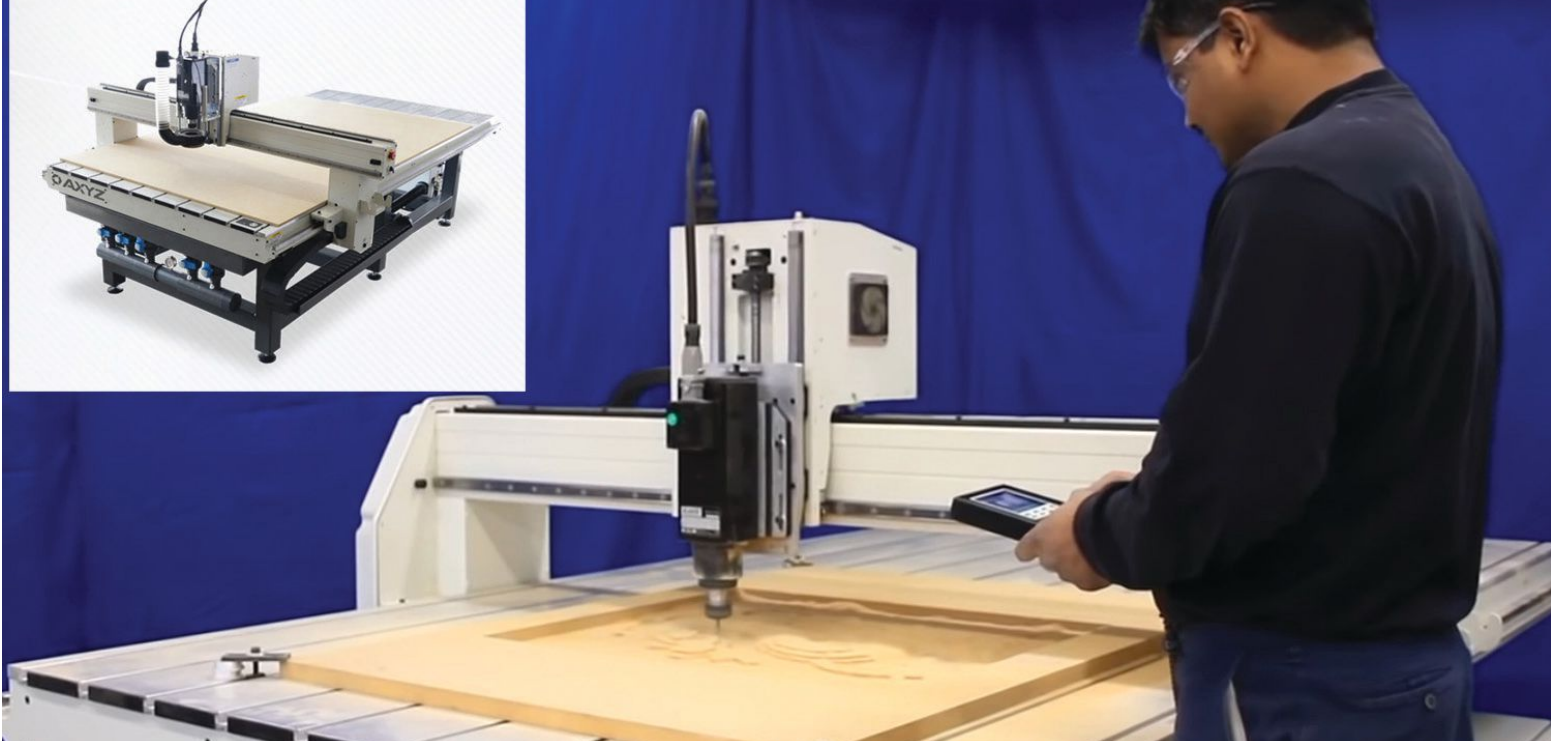


Edgebander



ALTENDORF GROUP

altendorfgroupamerica.us



AXZY's newest entry-level machine, model Z5.

lection, clamps, toolboxes, stands, laser attachment, software, lighting and fourth axis rotary kits. i2R CNC in Brooklyn, N.Y. (shop.i2rcnc.com) offers the i2R brand and distributes the Axiom line.

Woodshops that are looking for an entry-level machine that's heftier than a desktop model but is still budget sensitive might want to take a look at the Basic line from Castaly (castaly-cncmachine.com). The small-

est table starts at \$11,900 and there's a rotary axis available. Named the Basic-404, it comes with a DSP controller that's set up to accept standard G-code along with on-board conversational applications. An optional CAD/CAM system can create and edit part programs, and then send them to the machine for cutting.

Thermwood (thermwood.com) offers a system called Cut Ready that

BESSEY GearKlamp

We moved the handle for easier clamping.

With the new GearKlamp, BESSEY® moved the handle to make clamping easier. The rail-mounted handle is now offset from the point of contact and allows a wider variety of assembly applications in comparison to more traditional clamps.

BESSEY. Simply better.

AWFS
Visionary
Awards Winner

 besseytools.com





(From top) Felder's Format-4 c-express 920 Classic; Legacy's Renegade, and CAMaster's Stinger.

PREMIUM SHARPENING SERVICES

For all types of woodworking tooling including:

Saw Blades

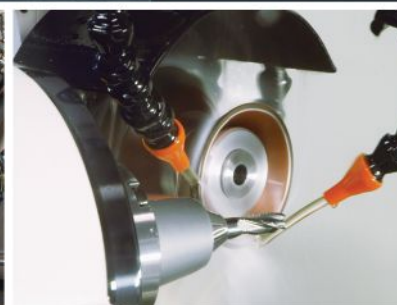
Router Bits

Shaper Cutters

Planer & Jointer Knives

CNC Spiral &

Compression Bits



QUICK TURN-AROUND & COMPETITIVE PRICING

Connecticut Saw & Tool is one of the most experienced and capable tool sharpening facilities in the U.S. Professional woodworkers from all over the country send their woodworking tools to CST. We pride ourselves on our decades of experience, as well as using the best equipment available. Our highly trained staff utilizes fully CNC controlled machinery, ultra high grit diamond wheels and oil coolant ensuring your

100% satisfaction guaranteed!

We also offer the BEST tooling with the BEST discounts from top manufacturers - in stock & ready to ship same-day!

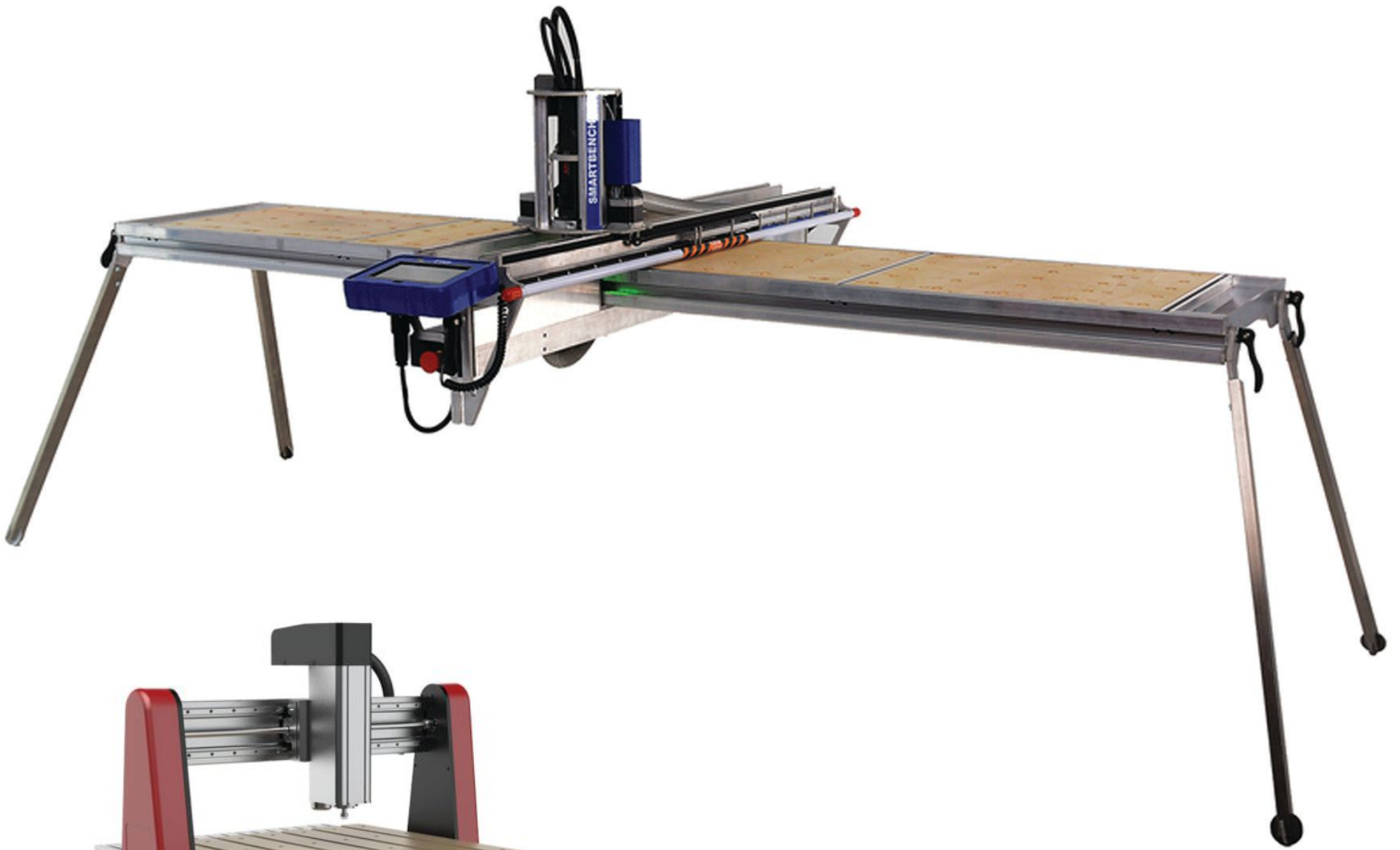
Call or email for pricing & up-to-date availability



Call Today! 800.404.1220
Free Shipping One Way

140 Avon Street • Stratford, CT 06615

info@ctsaw.com • www.CTSAW.com



(Clockwise from top) Yeti Smartbench; Grizzly model G0894; ShopBot Desktop Max, and i2R 4 with a 24" table.

requires no CNC programming. That makes it a good option for shops looking at entry-level systems, and the company continues to add versatility to this platform. For example, Thermwood has just released a new component, Combination Cabinets, that adds the ability to create a single structure comprised of multiple cabinets.

Limtech Industries (limtechindustries.com) has an entry-level CNC designed for nested base manufacturing.

MORE OPTIONS

Grizzly Industrial (grizzly.com) is introducing the G0894, a small-shop CNC router that boasts a large 23" x 35" cutting area and 3-hp spindle motor. An integrated controller allows a woodworker to store commonly used programs on the hard drive, as well as load programs from a flash drive or connect directly to a PC. The spindle has ER20 collets, so it can handle a range of tooling options.

CAMaster (camaster.com) offers several American-made CNC routers that are designed for smaller woodshops. The company's Stinger Series (starting at \$6,995) come in multiple sizes, ranging from a 2' x 3' bench-top model to a full 4' x 8' machine. The company offers free lifetime technical phone support and online diagnostics.

The Format-4 c-express 920 Classic, from the Felder Group (felder-group.com), is a CNC drilling and milling center that was specifically designed for smaller shops but with industrial-level endurance built in. It has a pretty small footprint at about 36 sq. ft. Felder offers tailor-made financing solutions, and a wide assortment of machine setups and arrangements for specific tasking.

XYZ describes its Z Series machine as "an entry-level, low-cost CNC router for first-time users". The newest addition, the Z5, features steel frame construction and a solid aluminum vacuum/clamping deck.

We started out talking about versatility, and smaller woodshops are not going to find many options that are more versatile than the Shaper Origin. This remarkable tool looks a bit like a standard portable router, but that's where the similarities end. The operator applies a special tape to the wood and the machine then scans that and makes a map using dots on the tape as reference points. After loading a job, the operator just follows the map on a screen, and the tool makes small adjustments as it travels, so that it delivers perfect results. The motor moves in the X, Y and Z planes within the tool housing to make corrections. 



ANY BRAND OF MOULDER SPINDLE REPAIRED TO BETTER THAN FACTORY SPECS

PDS can repair **any make or model** of moulder spindle using original factory parts, as well as re-engineer and fabricate hard-to-find components for out-of-production moulder spindle units.

WE REPAIR ALL BRANDS OF MOULDER SPINDLES, INCLUDING:

- **Weinig** (Including Powerlock™)
- **Homag**
- **Leadermac**
- **Kentwood**
- **ANDI**
- **Wadkin**
- **SCM**
- **HASKO**

EACH SPINDLE IS REBUILT TO BETTER-THAN-FACTORY TOLERANCES AND COMES WITH A 12-MONTH WARRANTY.

DOMINATE DOWNTIME



4367 Dallas Cherryville Hwy.
Bessemer City, NC
704-922-1206 • www.SpindleRepair.com



Exhibit explores Shaker-Modernist parallels

By Jennifer Hicks

The Fruitlands Museum in Harvard, Mass. is presenting “Visions of Design: Parallels in Mid-Century Modern and Shaker Furniture” through Mar. 22, 2020. The exhibit features pieces drawn from the museum’s collection and Field Farm in Williamstown, Mass., the former home of avid modern art and furniture collectors Lawrence and Eleanor Pamedo Bloedel.

The Shakers were a religious communal society who settled throughout the eastern United States, flourishing in the mid-1800s. The Modernists were recognized for their use of innovative aesthetic forms in the mid-20th century.

“Despite existing a century apart, their mutual sensitivity to place, materials, and intended use led both to prioritize purpose over decoration when creating and collecting furniture and art,” according to the museum. “The furniture and art in this exhibition may intrigue

Matthew Shewchuk’s “Mane Lamp”.



NEW JOBSITE SAW PRO

STYLE HIGH / LOW FENCE
WITH ERGOLOCK

ADVANCED DUST COLLECTION

DEEPER TABLE

JSS-120A60

SAWSTOP JOBSITE SAW PRO WITH
MOBILE CART 15A, 120V, 60HZ



ULTIMATE SAFETY
MAXIMUM PERFORMANCE
ULTRA-PORTABLE

LOWEST PRICES ■ FAST SHIPPING
800-365-6677

SHOP NOW

BISSAFETYSAW.COM
YOUR SOURCE FOR SAWSTOP PRODUCTS

PHOTOS: CHARLES UNIATOWSKI



Wharton Esherick used light to add a touch of drama.

Made in Germany: Woodworking machines from MARTIN

www.martin-usa.com

T27

Spindle moulder

Flexibility for today and tomorrow. And for all eternity.



T45

Thicknessing planer

When surface quality is what it's all about.



T54

Surface planer

A surface planer which fits your workshop perfectly.



T60C

Sliding table saw

The all-rounder in the Premium Compact Class.



MARTIN
WOODWORKING MACHINES

Eli Cleveland's "Exploding Tables" installation at the Visions of Design exhibit.

visitors to think differently about how the design of furniture evolves.

"In addition to comparison of these two collections, cabinetmaker Eli Cleveland, distinguished alumni of North Bennet Street School, Boston, will create replicas of three pieces of furniture in the exhibit, with yet-to-be assembled parts seeming to float in the center of the gallery, dramatically highlighting how the furniture was fabricated."

For more, visit www.fruitlands.org.

Shining a light

The Wharton Esherick Museum is featuring the finalists of its annual woodworking competition in its "Leave the Light On" exhibit, which opened Sept. 8 and runs through Dec. 29.

The exhibit celebrates innovative approaches to lighting by 13 makers, in-



I CHOSE A PANTHER TO BUILD MY BUSINESS

"The CAMaster Panther has been an exceptional addition to my business. After comparing multiple brands of routers, CAMaster came out on top. I was expecting a lot out of this machine, but when it arrived, I got a lot more than I expected."

Wesley Hendrix

Wesley Hendrix
ELITE CNC ROUTING & WOODWORKS
BROOKLET, GA

CAMaster

CAMaster.com | 770-334-2448



**Shaker pieces from the
Fruitlands Museum exhibit.**

cluding Dean Babin, Bob Brox, Ken Burton, Ashoke Chhabra, Eric Diven, Catherine Emil, Jamie Herman, Sandy Huse, John Lutz, Jodie Prud'homme, Matthew Shewchuk, Brian Skalaski, Janine Wang, and Jared Williams.

Launched in 1994, the annual competition challenges artists, woodworkers and craftspeople to draw inspiration from Escherick's unique designs, encouraging artists to continue to reinvent the world around us.

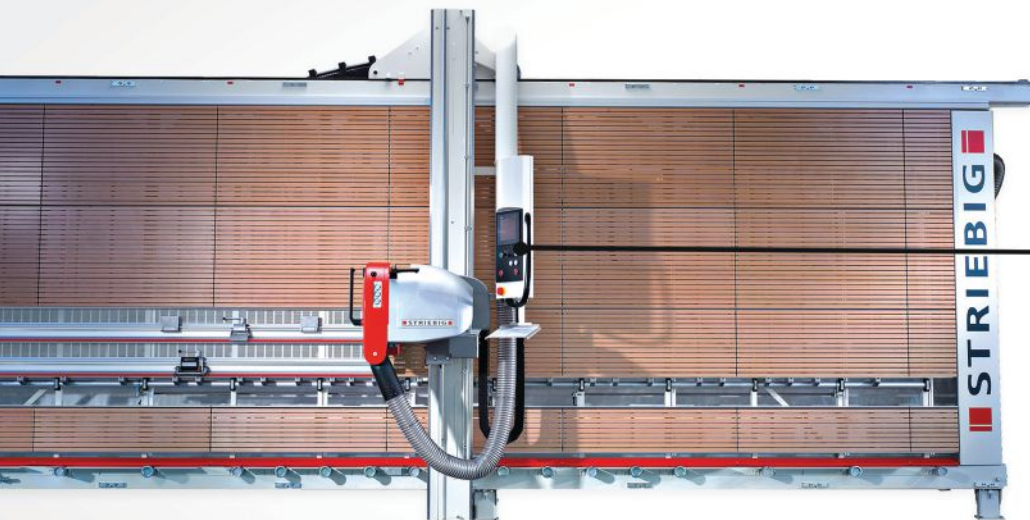
"Lighting mattered to Wharton Escherick. It added a touch of drama, a twist in the plot. He understood the unique power of light to transform our experience of space, to reveal and define form," the museum explained in a statement.

For more, visit www.whartonesherickmuseum.org. [W](#)



FREE UP YOUR CNC

FAST ACCURATE, CHIP FREE CUTS.
SAFE, SIMPLE, SPACE-SAVING.



COLONIAL SAW
MACHINERY SALES AND SERVICE

888.777.2729 WWW.CSAW.COM

STRIEBIG

NEW PRODUCTS

►► **MAX USA** announces the availability of its new SuperFinisher 18-gauge brad nailer to North and South American markets. Features include a Precision Point Contact Nose, which allows users to fasten trim in narrow spaces and also guides nails to a precise area, and a flat-top design that allows for nails to be fired as close as 1/8" from any vertical wall or surface, according to the company. For more, visit www.maxusacorp.com.



◀◀ **RIDGID** introduces its redesigned wet/dry vacuum line of 6-, 12-, 14- and 16-gallon models featuring an ergonomic makeover. Improvements include a front-to-back top carry handle, added comfort-grip side handles, a new drum key and side latches, a larger on/off switch, and built-in cord wrap. For more, visit www.ridgid.com.

▶▶ **SAWSTOP** has introduced its new Jobsite Saw PRO, a redesigned version of the jobsite saw that debuted in 2015. The saw features SawStop's contact detection technology, along with a new Active Dust Collection Blade Guard (now included with saw), a deeper (24-1/2") table surface, and quick-change High/Low T-Glide Fence face. The Jobsite Saw PRO sells for \$1,399 in the U.S. For more, visit www.sawstop.com.



▶▶ **GRIZZLY INDUSTRIAL** is introducing two router tables with a lift assembly, including the model T28780 with a 32" by 24" table and the model T28781 (above) with extension wings for a 56" x 24" table. The micro-adjustable router lift (right) accepts most brands, securely locks into place during operation, and allows convenient access to the router for above-table bit changes, according to the company. For more, visit www.grizzly.com.



▶▶ **GRIZZLY INDUSTRIAL** introduces the new 14", 10-hp, 3-phase sliding table saw with a digital fence, model G0853. The slider features digital controls for the main blade speed, blade tilt, scoring blade alignment, and rip fence adjustment. It has a table size of 59" x 68" with the included extension wings. Model G0853 sells for \$12,500 and is covered by a one-year warranty. For more, visit www.grizzly.com.



◀◀ **WALZCRAFT** recently added five Super Matte Colors to its collection of 3D Laminate Finishes available on one-piece doors and drawer fronts, as well as a wide range of moldings and various types of sheet goods. The new colors include Mysterious, Siena, Gauntlet Grey, Canadian Grey, and White. The Super Matte Finish has a low sheen and offers a durable, easy to clean surface, according to the company. For more, visit <http://walzcrafter.com>.



Find everything you need to build your dream wood home — all under one roof!



Meet with the industry's foremost log and timber home producers. See first-hand how various building systems are constructed.



BECOME A KNOW-IT-ALL!

Attend our **Log & Timber University** for detailed, step-by-step instructions on budgeting, planning and building your dream home.

The course is \$95 per person or \$129 per couple (plus \$30 for each additional attendee with the group). This fee covers the Course Guide, a comprehensive textbook to guide you through the entire homebuilding process; a notepad and assorted log & timber magazines; continental breakfast or snacks; plus FREE Lifetime Alumni Pass to the Log & Timber Home Shows.

presented by
LOG HOME
LIVING
Timber Home Living
Cabin LIFE .com

Visit www.LogHome.com/shows to find a show near you!

▶▶ **METABO HPT**, formerly Hitachi Power Tools, has introduced its first four-port battery charger, model UC18YTSL. It charges the company's 36-volt MultiVolt and 18-volt Metabo HPT/Hitachi batteries along with two USB compatible accessories. It's also equipped with two AC outlets to power additional electric devices. For more, visit www.metabo.com.



Choose the Molder that's

A Cut Above the Competition

- Made in America
- Easy Knife Set-Up
- 7-Year Warranty
- Small Footprint
- Straight, Curved, & Elliptical Moldings
- Hundreds of standard Profile Knives available
- Custom Knives

Visit us online
or call for a
free catalog!



WilliamsNHussey.com | Toll Free: 800-258-1380 | Made in

VACUUM PRESSING SYSTEMS, INC.

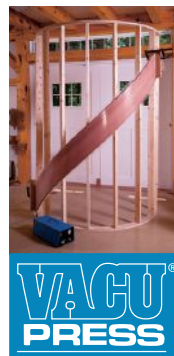


VENEERING AND LAMINATING WITH VACUUM

VacuPress®, the leader in vacuum technology for woodworking offers a complete line of innovative products for veneering, laminating and clamping with vacuum.

- Auto self cycling electric and air driven vacuum pumps
- FlipTop frame table presses
- Full line of panel and laminating bags in vinyl and polyurethane
- Veneering glue and accessories

Products and information online at
www.vacupress.com



The number one choice of woodworkers everywhere.

553 River Road, Brunswick, Maine 04011 • 800-382-4109 • Fax 207-725-0932

▼ **OSBORNE WOOD PRODUCTS**, a family-owned and operated manufacturer and distributor of fine decorative wood and metal products for the cabinetry, furniture and remodeling industries, is now offering metal table pedestal bases. For more, visit www.osbornewood.com.



▲ **NOVA USA** presents ExoShield Wood Stain, specifically designed to provide long-lasting protection for exterior decking, siding and outdoor furniture, while creating a naturally durable finish with exceptional color stability, according to the company. It has a proprietary blend of Tung oil, UV blockers, fungicide, and trans-oxide pigments. For more, visit www.novausaawood.com.

Top Notch Vacuum Cups
for all CNC Routers

See our videos online at
www.GreenBVC.com

BETTER VACUUM CUPS, INC.
Call **877-872-2821**
3833 Schaefer Ave Unit B, Chino, CA 91710

U.S. Patents Held

**INTERESTED IN BECOMING
FSC® CERTIFIED?**

We can help from start to finish!

wpma
WOOD PRODUCTS
MANUFACTURERS ASSOCIATION

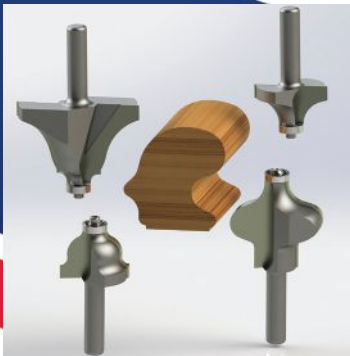
FSC@wpma.org | www.wpma.org

978-874-5445

►► **PAINTLINE** has added Euro Finishing Clips to its PSDR Series, an integrated system designed for spraying and drying cabinet doors. The system can accommodate up to 50 cabinet doors in just 18 feet of lineal space. The PSDR is designed for foolproof, tool-free assembly in less than 10 minutes. Tear down is just as fast and the entire system fits into ballistic nylon bags for convenient storage and easy transport to the next job site, according to the company. For more, visit www.thepaintline.com.



VEXOR
Custom Woodworking Tools
Denver, CO



Custom router bits, shaper cutters,
insert tools, and profile knives for
the woodworking industry.

Vexorcwt.com

Toll Free: 877.879.8906

3 Day
Turnaround
on beautiful
Dovetail Drawers

Orders & Information

Toll Free 866-391-3863

Fax 603-926-0160

www.newenglanddrawer.com

Toll Free 866-391-3863

New England
DRAWER

MADE BY CABINETMAKERS FOR CABINETMAKERS
Hampton, New Hampshire



◀ PPG is introducing the Aquacron 270 Series waterborne acrylic sanding primer, a fast-drying, single-component primer/sealer for interior wood, wood-related and plastic products. Designed for conventional, HVLP and commercial airless spray systems, Aquacron 270 offers good hardness and adhesion and excellent sanding properties in a convenient, ready-to-spray product. Due to its water-based formulation, the primer also has low volatile organic compound content, according to the company. For more, visit www.ppg.com.

Bainbridge Manufacturing, Inc.
Plastic Hardware Specialists
 Cabinet Master® Plastic Hardware

Finishing Grommets

litmy.ru

Please visit our website www.bainbridgemfg.com

NKBA
National Kitchen & Bath Association

BHMA
Bathroom Hardware Manufacturers Association

Made in the U.S.A.

AWFS
ASSOCIATION OF WOODWORKING & FURNISHINGS SUPPLIERS

Call 1-509-745-9555

or email info@bainbridgemfg.com

HÄFELE

SHIMS ARE SO LAST CENTURY

Up until now, leveling cabinetry has been an uncomfortable mix of shims or adjustable cabinet feet, a level and gymnastics. Well the innovators at Häfele have devised another way to level kitchen, office, wardrobe or other cabinetry: the revolutionary, new AXILO™ Plinth Adjusting Fitting System.

LET OUR EXPERTS HELP GET YOUR NEXT PROJECT STARTED!

Online & Livechat: www.hafele.com/us
 Phone: 800.325.6202 | Email: experts@hafele.us

CALENDAR

Organizations sponsoring meetings, classes or shows of interest to professional or hobbyist woodworkers are invited to submit items to: Calendar, Woodshop News, 10 Bokum Road, Essex, CT 06426; editorial@woodshopnews.com.

Include name, dates, location, description of event and a contact address or telephone number. Calendar items, which should be typed or printed clearly, must be received a minimum of 60 days before the event.

Please note that fees, as listed, might not include materials or shop fees. Check with a specific class for further details.

— Compiled by Jennifer Hicks

CALIFORNIA

Monthly — San Fernando Valley Woodworkers meetings are held on the third Thursday of each month at 7 p.m. at the Balboa Park Sports Complex, Gym Building, in Encino. www.sfvw.org

Monthly — Society of Wood Manufacturing, a chapter of AWFS consisting of educators, manufacturers, hardware and industrial suppliers, and machinery dealers, meets during the second week of each month. For

location and dates, visit www.awfs.org.

FLORIDA

Ongoing — The Dunedin Fine Art Center is offering six-week woodturning classes at its Cottage Campus taught by AAW professional member Tony Marsh for beginners and intermediate-level participants. Full-day classes are held on Thursdays. Call 727-298-3322 or e-mail education@dfac.org.

Monthly — Woodcrafters Club of Tampa meets every third Thursday evening at 3809 W. Broad St. in Tampa. www.tampawoodcrafters.org

INDIANA

Jan. 24-25, 2020 — 19th annual Midwest Tool Expo and Auction. Over 200 vendors displaying woodworking and construction equipment in a new 100,000-sq.-ft. convention center. Seminars on both days. Location: Michiana Event Center in Shipshewana. www.midwesttoolexpo.com

MAINE

Jan. 13 – March 6, 2020 — Eight-week Turning Intensive program with Beth Ireland. Designed to prepare woodworkers for successful careers as professional woodturners, and also open to amateurs who wish to bring their work up to a professional level.

Location: Center for Furniture Craftsmanship in Rockport. www.woodschoool.org

MARYLAND

Monthly — The Howard County Woodworkers Guild meets the first Saturdays of the month at the Bain Senior Center at 5470 Ruth Keeton Way in Columbia from 9 a.m. to 12 p.m. Open to all those working in wood. For information, email Manny Flecker at aaron0641@hotmail.com.

MASSACHUSETTS

Nov. 7-11 — David Calvo's five-day Bare Bones of Woodcarving workshops. Location: Calvo Studio in Gloucester. www.calvostudio.com

Nov. 9-10 — David Calvo's two-day wood carving class. Location: Calvo Studio in Gloucester. www.calvostudio.com

Nov. 20-24 — Paradise City Marlborough. Arts festival featuring 175 juried artists and makers of home furnishings, sculpture, paintings and more. Location: Royal Plaza Trade Center in Marlborough. www.paradisecityarts.com

NEVADA

Jan. 21-23 — International Builders' Show and Kitchen & Bath Industry Show. Location: Las Vegas Convention Center. www.ibs.org or www.kbis.org



Call Us
(800) 772-2327

American Made
Wide Belt Sanders

- 36" or 42" Maximum Working Width Available
- Available in Single Phase and Three Phase
- Motor Options Include 10, 15, 20, or 30 Horsepower Motor



www.safetyspeed.com



VENTLESS LLC.

New York - Toronto

GO VENTLESS! THE FUTURE WAY TO SPRAY TODAY!




NO AIR MAKE UP

NO STACK

NO ROOFING

NO HEAT LOSS

NO DUST

NO OVERSPRAY

GREEN ENERGY 90% LESS EMISSION!

Sold everywhere from New York to LA

Call us at (800) 666-8174 or visit www.ventless.ca

NEW YORK

Monthly — The Woodworkers of Central New York hold meetings on the first Thursday of each month at 6:30 p.m. at the Belgium Cold Springs Fire Department in Baldwinsville. www.woodcny.org

Monthly — Northeast Woodworkers Association meetings held on second Thursday of the month at various locations in the Albany area. www.woodworker.org

NORTH CAROLINA

Monthly — Triangle Woodworkers Association meetings held on the third Tuesday of each month at 7 p.m. at Klingspor's Woodworking Shop in MacGregor Village in Cary. www.trianglewoodworkers.com

Nov. 5-7 — Stiles Manufacturing Solutions Seminar. Experience six machinery work cells, software integration strategies, guest presentations on workforce development and much more while networking with fellow business leaders. Location: Stiles Machinery in High Point. www.stilesmachinery.com

RHODE ISLAND

Nov. 8-10 — 24th annual Fine Furnishings Show. Offering handmade furniture, accessories and fine art. Location: WaterFire Arts Center in Providence. www.finefurnishingsshows.com

SOUTH DAKOTA

Monthly — The South Dakota Woodworkers Guild meets the last Thursday of every month (except August) at various members' shops. The club has hand tool and wood-turning groups. www.sdwoodworker.org

TENNESSEE

Nov. 10-12 — Specialty Tools and Distributors Assoc. (STAFDA) 43rd annual convention and trade show featuring top companies and leaders in the construction industrial supply chain. Location: Music City Center, Nashville. www.stafda.org 

Leitz Tooling appoints CEO

Leitz Tooling USA has appointed Kenneth Nemec as Chief Executive Officer. Nemec will oversee U.S. operations for the global tooling manufacturer.

Nemec has been involved in manufacturing for 39 years with the last 20 years spent in senior leadership positions for organizations including Ever Sharp Tools Inc. and American Broach & Machine. He is also a journeyman tool maker and patent holder, according to the company.

Nemec holds a Masters in Business Administration and Management with endorsements in Marketing and Quality Management from Ferris State University.

Nemec is a Boy Scouts of America Wood Badge recipient. As an adult leader with the Scouts, Nemec has trained hundreds of youth and adult leaders in the skills of leadership and team building with an emphasis on the importance of character. Nemec also founded a non-profit organization Fighting Against Sarcoma Together (FAST) to raise funds dedicated to fighting the rare cancer. Nemec also enjoys delivering food to the elderly and spending free time with his two adult children and four grandchildren.

"I'm honored, and I'm grateful for the opportunity to lead this exceptional organization of creative, dedicated and talented professionals," Nemec said in a statement. "Leitz is an industry innovator that delivers solutions for continuous manufacturing improvement at the highest level. This is a terrific opportunity that any leader would welcome."

BEADED FACE FRAMES?

**WE WILL TAKE YOU FROM DRAWINGS TO "DONE".
NO TAPE MEASURE NEEDED!**



- All-in-One Combination includes positioning system, cut-off saw and MORSO notching machine
- Quickly design individual face frames on touch-screen or download complete job files
- Included software is compatible with most PLANIT software versions
- Videos and technical specs. online at www.hoffmann-usa.com



Hoffmann-USA.com
Toll-free: (866) 248 - 0100



The Country's Largest Selection of Unique Slabs and Burls



**BERKSHIRE
PRODUCTS**

Sheffield, Mass
413-229-7919
BerkshireProducts.com

CLASSIFIED MARKETPLACE

E-Mail marketplace@woodshopnews.com for Advertising Information

Adhesives

Glue Like a Pro!

Pro-Glue
White Veneer Bond
Dry Resin (DRIES CLEAR)

Professional Quality Adhesives

Pro-Glue.com
Order Toll Free: 888.342.8262
Minimum order ships FREE!



Bits, Blades and Cutters

SELF-SET
JOINTER / PLANER KNIFE

The Worlds Only *Affordable*
Self-Setting Knife for your Jointer or Planer

Precisely Located Stops on
the SELF-SET Holder Ensure
Perfect Set-Ups
Every Time

Fast and Accurate Knife
Changes in Every Machine
Ever Made - Every Time

DISPOZABLADE
800-557-8092 .com



Sharpening

Vortex professionally
sharpens all types of
solid carbide tooling — and all brands!
Two-day turnaround service offered
on most tools, competitive pricing and
new razor-edge technology! Try us.

VORTEX
TOOL COMPANY INC.
WHERE INDUSTRY TURNS FOR INNOVATIONSM

5605 Jelinek Avenue • Schofield, WI 54476
vortextool.com
800-355-7708 • fax 715-355-7353



WOODSHOP
NEWS
Shaping the Successful ShopSM

Drawers & Doors

Cabinet Parts.com
America's First Online Since 1997

Do-It-Yourself
Wood Drawer Boxes



When You want them,
—— We have them.

Do you know how many types of
drawer mounts there are?

**Doors, Drawer Boxes,
Custom Cabinet Boxes,
Moldings & Accessories**



1-800-665-0623
www.eliaswoodwork.com

"Your Single Source
Provider"



Doors, Drawers & More

- No Quantity Limits
- Over 70 Different Grades/Wood Species
- Design Flexibility
- Custom Sizes
- Finished or Unfinished
- Timely Delivery

WalzCraft

WalzCraft.com 800-237-1326

Fastners



Easy Wall Panel System

Simple, decorative
aluminum trim



(631) 750-3000
monarchmetal.com

Hardware

HINGE JIG.com

SAVE TIME, SAVE MONEY

Install your inset and overlay hinge
back plates quickly and accurately.

Designed to work with inset and overlay door
hinges from Salice, Blum and hardware resources



**CLASSIFIED
ADVERTISING**

CALL
860-767-3200
ext. 242

WOODSHOP
NEWS
Shaping the Successful ShopSM

Hardwoods



Specializing in
Unique Hardwoods

Exotic
Figured
Domestic
Quartersawn
&
Live Edge Slabs

in stock!

"The Woodworker's Candy Store"

937-572-9663
sales@crlumber.com
www.crlumber.com

EISENBRAND INC.
EXOTIC HARDWOODS
• Quality Guaranteed •
FREE BROCHURE
Phone 310-542-3576
Orders 800-258-2587
www.eisenbrandhardwoods.com
clayton@eisenbrandhardwoods.com

**NORTHWEST
BAMBOO** Inc
LUMBER, PLYWOOD
VENEERS, FLOORING
503-695-3283
WWW.NWBAMBOO.COM

STEVE WALL LUMBER CO.
Quality Hardwoods and Woodworking Machinery
For The Craftsman and Educational Institutions.

The trusted supplier from the Heart
of North Carolina Furniture County.

- HARDWOODS • EXOTICS • THIN CRAFTWOOD • AROMATIC CEDAR
- HARDWOOD PLYWOOD • CUSTOM PANEL DOORS • HARDWOOD FLOORING

See Our Catalog on the WEB: walllumber.com

BOX 287 • MAYODAN, N.C. 27027
336-427-0637 • 1-800-633-4062
Email: wood@walllumber.com
SEND \$1.00 FOR CATALOG

CLASSIFIED MARKETPLACE

Call 860-767-3200 ext. 242 for Advertising Information

Hardwoods



www.rarewoodsusa.com • (207) 364-1073
120 species of exotic & domestic woods
Ebony, Olive, Rosewood, Satinwood, etc.
\$3 million inventory – buy 1 plank or 1000!

RARE HIGHLY FIGURED CLARO WALNUT

1"-3" thick lumber RWL, large slabs,
turning blocks & gunstocks.
Wineland Walnut (530) 345-4012
Fax: (530) 345-0990 • Mon-Fri 8-3
9009 River Road, Chico, CA 95928
winelandwalnut@gmail.com
www.winelandwalnut.com

Our name says it all...



Over 400 suppliers! 35 ways to search!

www.woodfinder.com
SINCE 1999



KD Kayu
Philippine Mahogany

4/4", 5/4", 6/4",
8/4", 12/4", 16/4"

Full Sawn Rough
Random Width 6" - 12"
Random Length 10' - 22'

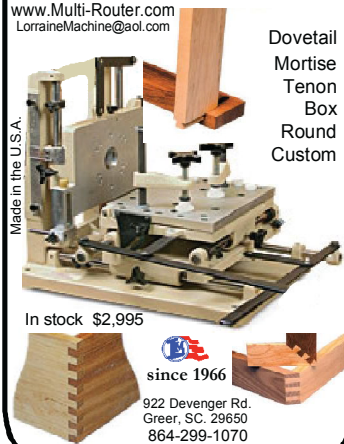
mmflagship@aol.com
(888)-479-3999

Joinery

MULTI-ROUTER

Lorraine Machine, Inc.

www.Multi-Router.com
LorraineMachine@aol.com



Dovetail
Mortise
Tenon
Box
Round
Custom

In stock \$2,995

since 1966

922 Devenger Rd.
Greer, SC 29650
864-299-1070

Lighting

Cabinet Parts.com

America's First Online Since 1997



Light Years Ahead.

Under Cabinet Lighting



When You want them,
— We have them.

There are three drawer mounting types:
Undermount, Side Mount and Center Mount.

Lumber

L.L. JOHNSON LUMBER MFG. CO.

EVERYTHING FOR THE WOODWORKER

CHARLOTTE, MI
SOUTH BEND, IN

HARDWOODS
SOFTWOODS
EXOTICS
PLYWOOD
TOOLS



theworkbench.com
800-292-5937

Services

CNC ROUTER BIT SHARPENING

Spiral & Compression Router Bits
Sharpened to Factory Specifications,
using 5 Axis CNC Grinder



DISCOUNTED PRICING
ON CNC TOOLING FROM:



100% Satisfaction
Guaranteed

FAST TURN-AROUND &
FREE SHIPPING ONE WAY!



CONNECTICUT
SAW & TOOL

800.404.1220

140 Avon Street • Stratford, CT 06615
info@ctsaw.com • www.CTSAW.com

Safety Equipment

JET-KLEEN™

Series of Personnel Blow-off
& De-dusting Systems



Keep Your
Workers
SAFE!

Same great performance
as with compressed air -

WITHOUT
THE DANGERS

Safe - Efficient -
OSHA Compliant



sales@specializedsafetyproducts.com
specializedsafetyproducts.com

Spray booth

introducing VENTLESS spraybooths



NO AIR MAKE UP
NO STACK
NO ROOFING
NO DUST
NO HEAT LOSS
NO FUMES

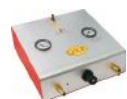
Call us at (800) 666-8174
or visit www.ventless.ca

Vacuum Equipment

Vacuum Press

www.qualityvak.com

Pumps

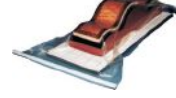


Pneumatic



Electric

Presses



Bags

Frame Presses

Professional automatic pneumatic systems
with 4'6" x 8'6" bag from \$625

Toll Free 800 547-5484

Quality VAKuum Products, Inc.

www.qualityvak.com

74 Apsley St. Hudson, MA 01749
Phone (978) 562-4680 Fax: (978) 562-4681

CLASSIFIED ADVERTISING

CALL 860-767-3200 ext. 242

**WOODSHOP
NEWS**

Vacuum Equipment

For CNC Routing and Work Holding Solutions



CERTIFIED FLAT VACUUM TABLES

Superior Holding - Without Clamps
Reduces Set-up Time
Retrofits All Machines
Meets or Exceeds OEM Standards
Sold Direct or to OEMS

sales@vacuumtables.com
www.vacuumtables.com

Over 40 Years of
Engineering Solutions

VACUUMTABLES.COM

**PLACE YOUR
AD HERE!**

CALL 860-767-3200
ext. 242

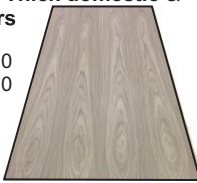
Veneers

SUPERIOR VENEER Artisan Thick

1/16" Artisan Thick domestic & exotic veneers

4 x 8 & 4 x 10
5 x 8 & 5 x 10

Available as:
Face
Paperbacked
MDF, Particle Board, Veneer Core
substrates



www.superiorveneer.com
ph:855.940.7827 fax:812.941.8780
1819 Dewey St. New Albany, IN 47150

Wood Turning

TURNINGS UNLIMITED

Custom Woodturning



(937) 588-4050 Fax (937) 588-4051
236 Dogwood Lane, Latham, OH 45646
www.turningsunlimited.com

**DO YOU
SEE THIS
AD?**

Your customers do, too.

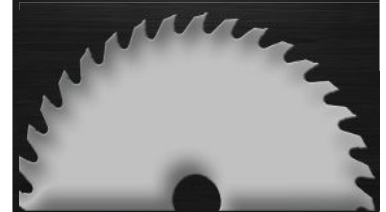
Place your ad here.
Call 1-800-444-7686 x 242

**WOODSHOP
NEWS**
Shaping the Successful Shop™

**WOODSHOP
NEWS**
Shaping the Successful Shop™

**VISIT THE
ALL-NEW
2019
RESOURCE
GUIDE**

resourceguide.woodshopnews.com



ADVERTISING INDEX

Amana Tool.....	www.amanatool.com	C4	M.L. Campbell.....	www.mlcampbell.com	17
American Fabric Filter Co.....	www.americanfabricfilter.com	56	MARTIN WMC.....	www.martin-usa.com	59
Anderson America Corp.....	www.andersonamerica.com	11	Mozaik Software Inc.....	www.mozaiksoftware.com	15
Bainbridge Manufacturing.....	www.BainbridgeMfg.com	56	New England Drawer.....	www.newenglanddrawer.com	52
Beaver Tools.....	www.beavertools.com	12, 53	Oneida Air Systems Inc.....	www.oneida-air.com	3
Berkshire Products.....	www.BerkProducts.com	59	OrderFox.com.....	www.OrderFox.com	28
BESSEY Tools North America.....	www.besseytools.com	30	Precision Drive Systems, PDS.....	www.PDSspindles.com	21
Cabinet Pro LLC.....	www.cabinetpro.com	18	Salice America.....	www.saliceamerica.com	9
Cantek America Inc.....	www.cantekamerica.com	31	Sames Kremlin, Inc.....	www.sames-kremlin.com	57
Castaly Machine.....	www.lobomachine.com	2	SandMan Products.....	www.sandmanproducts.com	54
Castle, Inc.....	www.castleusa.com	45	Scm Group.....	www.scmgroupna.com	14
Colonial Saw Co.....	www.csaw.com	37	Shaper Tools.....	www.shapertools.com	41
Connecticut Saw & Tool.....	www.ctsaw.com	20	Southeast Tool, Inc.....	www.SoutheastTool.com	5
Decore-ative Specialties.....	www.decore.com	6 - 7	Southworth Products Corp.....	www.southworthproducts.com	48
Eastool LLC.....		46	Stiles Machinery.....	www.stilesmachinery.com	29
Elias Woodwork & Manufacturing.....	www.eliaswoodwork.com	47	Timesavers, Inc.....	www.timesaversinc.com	25
Felder Group USA.....	www.felderusa.com	1	Velox CNC USA.....	www.VeloxCNC.com	58
Forrest Manufacturing.....	www.ForrestBlades.com	52	Ventless Inc.....	www.ventless.ca	55
Fuji Industrial Spray Equipment.....	www.fujispray.com	16	Vexor Custom Woodworking Tools.....	www.vexorcwt.com	54
GreX Power Tool.....	www.grexusa.com	26	Vortex Tool Co., Inc.....	www.vortextool.com	40
Grizzly Industrial, Inc.....	www.grizzly.com	32-33	Wagner Meters.....	www.wagnermeters.com	23
Hafele America Co.....	www.hafele.com/us	57	WalzCraft Industries Inc.....	www.WalzCraft.com	55
KCD Software.....	www.KCDsoftware.com	4	WEIMA America.....	www.WEIMAAMERICA.com	13
Keystone Wood Specialties.....	www.keystonewood.com	51	Wood Pro Expo.....	www.woodproexpo.com	22
Laguna Tools Inc.....	www.lagunatools.com	49	Woodcraft Supply LLC.....	www.woodcraft.com	50
Lignomat USA, LTD.....	www.lignomat.com	19	Woodstock International.....	www.woodstockinternational.com	C2
Limtech Industries.....	www.limtechindustries.com	27			



Campers putting together birdhouses and other projects using Lamello's connectors at Camp Good Days and Happy Times in upstate New York.



Helping campers

Colonial Saw and its industry partners are helping campers at Camp Good Days and Happy Times in Rochester, N.Y. have the good old-fashioned summer fun they deserve.

The camp offers free programs for children, adults and families affected by cancer or sickle cell anemia. Since not everyone is up for swimming, canoeing and dodgeball, woodshop is offered.

According to camp woodshop volunteer Jim Oliver, Colonial Saw began to help the program in 2017 when another volunteer, Jerry Romanowski, discussed some of the children's challenges with Colonial Saw's Chris Hoffmann. Next, Marco Ress, Lamello's international sales manager and a cancer survivor, committed to supply the camp with the company's connectors and accessories.

The connectors, particularly the Clamex P-14, provide a quick and easy way to assemble projects. The campers are making birdhouses, totes and tool caddies.

"Some of the children are in therapy or just finished up their chemo treatments so they're kind of weak. There's a big playground but some of the kids are not strong enough to run around and play on it. Woodworking and arts and crafts are things they can do inside a building and not be running around," says Oliver.

"By using connectors that Lamello is providing they're not using as much force to fasten the pieces. With just a small turn they latch together versus using drills and screwdriver. The kids are just elated. There's so much joy on their faces when they put these together on their own. They're so proud when they get done."

Camp Good Days and Happy Times was founded in 1979 by Gary Mervis. It's held on a 13-acre property lining the shores of Keuka Lake in Branchport, N.Y.

For more, visit www.campgooddays.org. [W](#)

60 Grit

Rough humor by Steve Spiro

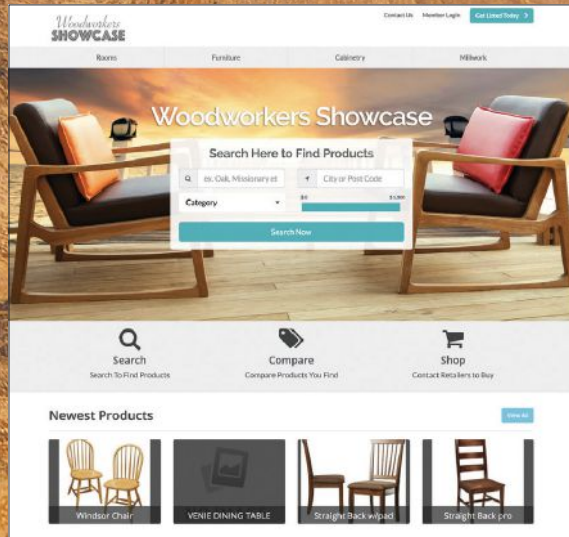


BRUCE LEE'S HOBBY- HANDCRAFTING WOOD FURNITURE

Woodshop News presents

WOODWORKERS SHOWCASE

A new Marketing site connecting professional woodworkers with qualified buyers



Woodshop News introduces **Woodworkers Showcase**, a new website where artisans, furniture, cabinet and architectural millwork shops can market their work to an established audience of high-end buyers.

Woodworkers Showcase's primary audience are readers of other Active Interest Media (publisher of Woodshop News) titles, such as *Craft Homes*, *Old House Journal*, *Log Home Living*, *Period Homes*, *Power & Motoryacht*, *Yachts International*, *Soundings*, *PassageMaker*, *Sail*, and *Angler's Journal*. These readers know and understand that quality products are worth it.



sales@woodshopnews.com



THE MARKETING OF THIS SITE WILL COVER
COMBINED REACH

Total print & digital distribution
OVER 2 MILLION MONTHLY

Total monthly web site page views
OVER 2.5 MILLION MONTHLY

Average House Hold income
\$193,744

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

INDUSTRIAL

**WHY CHOOSE A SPEKTRA™
COATED CNC ROUTER BIT**

UP TO
2.5X
LONGER LIFE
COMPARED TO UNCOATED BITS

nAco coating is a micro-thin ceramic coating which enables the tool's cutting edge to retain crucial sharpness and lubricity. This provides longevity and produces cutting results of the highest quality. Coating prevents high heat and oxidation which is detrimental to cutting tool performance. Visit us online to browse our large selection of Spektra™ router bits.

SPEKTRA
EXTREME TOOL LIFE COATING®

 **Amana Tool**®

www.amanatool.com/spektra