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INVENTORS

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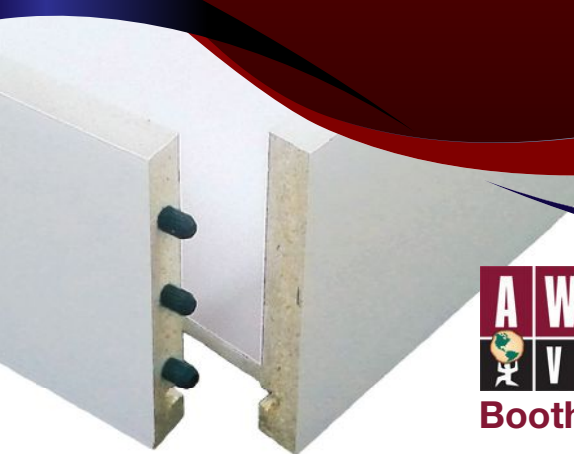
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53 AWFS 2013

A preview of the list of scheduled exhibitors and a look the contests, events and award ceremonies planned for the show.

Cover photo: Joe Pugliese/August

OnlineVideo

From WoodworkingNetwork.com/video

Thos. Moser Worker Builds Rocker

Thos. Moser cabinetmaker Brenda Swett goes through the process of assembling the company's New Gloucester Rockers. Swett works on assembling the arms of a New Gloucester Rocker, and then fitting the pins that will hold the arms, seat, and top crest rail securely.



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Invention Is The Necessity

Necessity is the mother of invention, we've been told. But to create new sales opportunities, you want to turn the phrase around.

We've begun publishing a series of stories about woodworking businesses that are developing inventions that they hope will become necessities.

It's easy to get in a rut, shying from innovation, because, "No one's asking for it." The great American trait is invention, innovation, and re-invention. By meeting an unmet and, often enough, an unspoken need for a new product or new approach, you seize an opportunity to be first to market.

For example, the creation by Patrick Buckley of iPad cases was not a response to customers seeking them. There were no iPads users when he came up with the idea in 2009. Now he and his partners are featured in our wood products inventors series.

WoodworkingNetwork/CWB

Likewise we've invented something new at *Custom Woodworking Business*: our website relaunched June 10, with a home page specifically targeting professional custom woodworking businesses like yours.

This eight-month project helps make the rich resources of **WoodworkingNetwork.com/cwb** more visible and accessible. You'll find channels devoted to overall interests like business management, wood and veneer, how-to videos and new products.

You'll also find your favorite bloggers, news and case studies about custom wood companies. Let me know what you think.



Bill Esler, Editor in Chief
besler@woodworkingnetwork.com



Shop Gloves Feedback

Scott Wunder, WunderWoods, wrote gloves that make him safer, and dismisses guards: "Guards would help, but we all know that there isn't one on my table saw, or yours."

Don't wear gloves if you are concerned about pushing your work through a saw or jointer, consider a roll feeder. Skin, it's a wonderful thing. Use it enough and it gets tougher and repairs itself. **Trevor, Canada**

I would never wear gloves. I have witnessed more than a few people have their fingers ripped off. One was a very good machinist that was running a CNC mill and was doing some secondary work on a drill press. Someone called out to him and distracted him for a second. That was all it took for the glove to catch in the drill press. He lost two fingers. **J Giannuzzi, Loraine, OH**

I also wear tight-fitting gloves in the shop sometimes, primarily when cutting up rough stock or handling razor-edged melamine board. The only incident I know of where gloves were a culprit was a friend who was feeding stock into an edge bander wearing loose-fitting gloves. A glove got caught in the feed chain and pulled his hand through the trim saw, router and buffer. He lost 4 fingers. Your cavalier attitude towards having a guard on your table saw does give me pause. I have worked in the industry and taught wood product manufacturing for over 35 years and have witnessed numerous incidents where people were injured because they foolishly removed guards.

Jerry Finch, Wisconsin

I wear tight-fitting Kevlar fabric gloves with gripping dots on the surface while chiseling, edge joining, tablesaw ripping, routing and sanding on the edge sander – all machines that require good manual control of the stock when feeding. The gripping ability of these gloves gives me that control while protecting my hands from sharp stock edges and splinters. In instances where I haven't been wearing gloves, large splinters on the edge of oak boards have gone all the way through my finger; my push stick caught the table saw blade and jolted straight back into my palm; parts have been ripped from my hand while sanding on the edge sander. I have had the chisel slip and cut my hand. In each case, a gloved hand would have given me more protection and control.

M Claypool, Horsehead, NY

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12" PLANER/JOINTER WITH SPIRAL CUTTERHEAD

- Motor: 5 HP, 220V, single-phase, 25A
- Jointer table size: 14" x 59 1/2"
- Cutterhead: Spiral, 32 inserts
- Cutterhead speed: 5034 RPM
- Max. jointer depth of cut: 1/8"
- Max. width of cut: 12"
- Max. planer depth of cut: 1/8"
- Max. planer cutting height: 8"
- Overall size: 67 1/2" W x 24" D x 41 1/2" H
- Approx. shipping weight: 704 lbs.



\$150 shipping

G0634XP ONLY \$2295.00

15" SPIRAL CUTTERHEAD PLANER

- Motor: 3 HP, 240V, single-phase
- Max. cutting width: 15"
- Max. stock thickness: 8"
- Min. stock thickness: 3/16"
- Min. stock length: 8"
- Feed rate: 16 FPM and 30 FPM
- Cutterhead diameter: 3"
- Cutterhead speed: 4800 RPM
- Table size: 15" x 20"
- Overall size: 42" L x 32 1/2" W x 45 7/8" H
- Approx. shipping weight: 675 lbs.



\$150 shipping



G0453Z Reg. \$1695.00 SALE \$1595.00

12" PARALLELOGRAM JOINTERS

- Motor: 3 HP, 230V, single-phase, 15A
- Precision-ground cast iron table
- Table size: 12 3/4" x 83 1/2"
- Floor to table height: 31 5/8"
- Max. depth of cut: 1/8"
- Cutterhead speed: 4300 RPM
- Cuts per minute: 19,800
- Footprint: 84" x 33"
- Approx. shipping weight: 1059 lbs.



\$255 shipping

G0609 ONLY \$1995.00 4-Knife Cutterhead

G0609X ONLY \$2695.00 Spiral Cutterhead

20" PLANERS

- Motor: 5 HP, 240V, single-phase
- Min. stock thickness: 3/16"
- Min. stock length: 8"
- Max. cutting depth: 1/8"
- Cutterhead diameter: 3 1/8"
- Max. cutting width: 20", Max. height: 8"
- Table size: 20" x 25 3/4"
- Overall dimensions: 55 1/2" L x 39 1/2" W x 45 7/8" H
- Approx. shipping weight: 920 lbs.

2 SPEED

\$179 shipping



G0454 - Reg. \$1650.00 SALE \$1595.00

G0454Z - Reg. \$2550.00 SALE \$2450.00 Spiral Cutterhead **Z-SERIES**

12" SHORT BED JOINTER WITH SPIRAL CUTTERHEAD

- Motor: 3 HP, 220V, single-phase, TEFC capacitor start induction
- Cast iron table size: 13" x 60"
- Cutterhead: 4 row spiral with 60 indexable solid carbide inserts
- Cutterhead diameter: 3 3/4"
- Max. depth of cut: 1/8"
- Max. width of cut: 12"
- Overall size: 60" L x 30 3/4" W x 43 1/4" H
- Approx. shipping weight: 834 lbs.



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\$179 shipping

G0706 ONLY \$2495.00

24" PLANERS

- Motor: 5 HP, 220V, single-phase (G5851Z)
- 7 1/2 HP, 220V/440V*, 3-phase (G7213Z)
- Min. stock thickness: 1/4", min. length: 7 1/2"
- Precision-ground cast iron table
- Table size: 31 1/8" L x 24 1/8" W
- Max. cutting width: 24", max. height: 8"
- Overall size: 42" W x 37" H x 40 1/2" F
- Footprint: 26 1/2" x 24 1/2"
- Approx. shipping weight: 1126 lbs.

MADE IN TAIWAN



G5851Z ONLY \$4750.00

G7213Z ONLY \$4995.00

\$255 shipping

16" JOINTERS

- Motor: 5 HP, 220V, TEFC capacitor start induction, 25A
- Overall size: 99 1/4" L x 45 1/2" W x 30 3/4" H
- Table size: 17" x 99 1/4"
- Fence: 43 1/4" x 6 5/8"
- Bevel jointing: 0° - 45°
- Max. depth of cut: 5/16"
- Max. width of cut: 16"
- Cutterhead RPM: 5,900
- Approx. shipping weight 1719 lbs.



\$255 shipping

G9953ZX ONLY \$6495.00 Single-phase

G9953ZXF ONLY \$6295.00 3-Phase

8" JOINTERS

- Motor: 3 HP, 240V, single-phase, 9A, TEFC, 3450 RPM
- Deluxe cast iron fence size: 35" L x 1 1/4" W x 5" H
- Cutterhead knives: 4 HSS, 8" x 3/4" x 1/8"
- Cutterhead speed: 4800 RPM
- Cutterhead diameter: 3 3/16"
- Infeed table size: 8" x 43 3/8"
- Total table size: 8" x 76 3/8"
- Max. depth of cut: 1/8"
- Max. rabbeting depth: 1/2"
- Approx. shipping weight: 562 lbs.



\$150 shipping

G0490 - Reg. \$975.00 SALE \$925.00 4-Knife Cutterhead

G0490X - Reg. \$1295.00 SALE \$1250.00 Spiral Cutterhead

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

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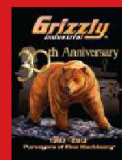
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- Motor: 2 HP, 110V/220V, single-phase, TEFC capacitor start induction, 1725 RPM, 60 Hz, prewired 220V
- Amps: 20A at 110V, 10A at 220V
- Precision-ground cast iron table
- Table size: 17" x 17" x 1 1/2" thick
- Table tilt: 10° left, 45° right
- Floor to table height: 37 1/2"
- Blade size: 131 1/2" long
- Blade width range: 1/8" - 1" wide
- 2 blade speeds: 1700 and 3500 FPM
- Wheels: Computer-balanced cast aluminum with polyurethane tires
- Wheel covers: Pre-formed steel
- Bearings: Sealed and permanently lubricated
- Overall size: 73" H x 32" W x 32" D
- Approx. shipping weight: 342 lbs.

LIMITED EDITION

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G0513ANV

REG. \$895.00 SALE \$795.00



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10" LEFT-TILTING CABINET TABLESAW

- Motor: 3 HP, 220V, single-phase
- Solid cast-iron table
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- 4" dust port included
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- Powder coated paint
- Base dimension: 20 1/2" x 20 1/2"
- Quick change between riving knife & splitter guard
- Approx. shipping weight: 547 lbs.



G1023RLW ONLY \$1350.00

10" TABLESAWS

- Motor: 3 HP, 220V, single-phase Leeson®
- Precision ground cast iron table
- Cast iron trunnions
- Max. rip capacity: 29 1/2" (G0690), 50" (G0691)
- Max. depth of cut @ 90°: 3 1/8"
- Max. depth of cut @ 45°: 2 3/16"
- Overall dimensions: 62"L x 41"W x 40"H
- Approx. shipping weight: 539 lbs.



G0691



G0690 3HP w/Riving Knife - Reg. \$1402.75 SALE \$1295.00

G0691 3HP w/Long Rails & Riving Knife - Reg. \$1496.50 SALE \$1375.00

12" EXTREME TABLE SAWS

- Motor: 5 HP, 220V, single-phase, 18A
- Table height from floor: 35 3/4"
- Table size with extension 30 3/4" x 78 3/4"
- Max. depth of cut @ 90°: 4"
- Max. depth cut @ 45°: 2 3/4"
- Cast iron trunnion
- Precision-ground cast iron table
- Overall dimensions: 91" W x 93" D x 42 1/2" H
- Approx. shipping weight: 854 lbs.



EXTREME
SERIES



G0605X1 5 HP, Single-Phase ONLY \$2495.00

G0606X1 7 1/2 HP, 3-Phase ONLY \$2495.00

19" EXTREME BANDSAWS

- Motor: 3 HP, 220V/440V*, 3-phase, TEFC induction, 60 Hz, prewired 220V
- Precision-ground cast iron table
- 2 Blade speeds: 1700, 3500 FPM
- Bearings: sealed and permanently lubricated
- Wheels: fully balanced cast iron w/polyurethane tires
- Wheel covers: pre-formed, hinged steel
- Overall size: 76" H x 36" W x 32" D
- Approx. shipping weight: 480 lbs.

EXTREME
SERIES



G0514X2 3 HP, Single-Phase ONLY \$1575.00

G0514X3 3 HP, 3-Phase ONLY \$1475.00

G0514X2B 3 HP, Single-Phase, w/Motor Brake \$1650.00 SALE \$1595.00

21" BANDSAWS WITH BRAKE

- Motor: 3 HP (G0566B), 5 HP 9G0531B) 220V, single-phase
- Throat capacity: 20"
- Table size: 29 1/2" x 20 3/4" x 1 7/8" thick
- Table tilt: 5° left, 45° right
- Standard blade length: 165"
- Ball-bearing guides
- Includes 1" blade
- Cast iron wheels with polyurethane tires
- Approx. shipping weight: 680 lbs.

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G0566B 3 HP w/Motor Brake - Reg. \$2095 SALE \$1995.00

G0531B 5 HP w/Motor Brake ONLY \$2150.00

24" BANDSAWS

- Motor: 5 HP, 220V, single-phase or 7-1/2 HP, 3-Phase
- Precision-ground cast iron table
- Table size: 33 1/2" x 23 5/8" x 2"
- Table tilts 45° for bevel cuts
- Floor to table height: 32 1/2"
- Blade size: 180" - 181 1/2" long
- Blade speed: 5300 FPM
- Sealed and lubricated bearings
- Overall size: 48" W x 83 1/2" H x 32" D
- Approx. shipping weight: 951 lbs.

MADE IN TAIWAN

MADE IN AN
ISO 9001 FACTORY



G0568 5 HP, Single-Phase ONLY \$2995.00

G0569 7 1/2 HP, 3-Phase - Reg. \$2995 SALE \$2795.00



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CREDIT CARDS



Moser Wires Walnut Desk

Thos. Moser's commercial furniture line shows how to wire wood elegantly.

by Bill Esler

Thos. Moser is a paradigm of classic fine residential furniture making. But the company runs a business in business furniture too: Moser Contract. High end boutique hotels or businesses wanting contemporary classic office furniture, would be likely target customers.

Moser Contract introduced its Element Collection at NeoCon 2013 last month, winning Silver for an Elements sideboard with drawer fronts of Paperstone, a panel made from paper. Designed by Adam Rogers, Element honors the Moser devotion to modern design and quality craftsmanship, with simple lines, use of traditional joinery

techniques, and bringing out the essence of the wood, core to Rogers' approach.

"Relying on the basic elements of design such as point, line, and plane provides a foundation for the approach to these designs," says Rogers. "My objective is to amplify subtlety, while celebrating the beauty of natural materials. Each piece must respect the honesty of the making process."

Most of Thos. Moser furniture is in American black cherry. Sensing growing interest in darker woods, Rogers sourced walnut from Missouri for the line.

The Element desk shown here, with hollow leg for wiring and outlets discretely

seated at the back of the drawer, incorporates a feathered miter, made with two solid wood splines at an angle, "so you are getting edge grain on both angles," says Rogers. Is this hard to execute on the higher contract-volume runs?

"We actually designed it to be bench made," says Rogers. "We set up a dado stack and jig that holds the piece at a 45° reference to the fence. After one pass it's flipped the around, cut, and then you glue up sub assembly."



View a slideshow of Thomas' work at WoodworkingNetwork.com/CWB





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News

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Vivo Brothers Building Boats

POLAND, OH — Ready-to-assemble pine wood sailboats and rowboat kits are now being manufactured by Australian firm Balmain Boat at architectural woodwork firm Vivo Brothers. A Classic Rowboat kit includes 38 Russian pine pieces, pre-cut by Vivo, says Nicole Still, co-founder.

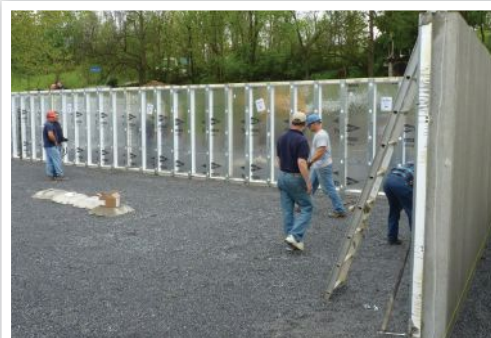
“They do all the CNC cutting,” says Still, and accompanied by glue, nails, epoxy and screws. The Classic kit, \$1,650, yields an 8-ft., 120-lb boat.



Woodworking Skills Program

NELLYSFORD, VA — The Woodwork Career Alliance (WCA) job skills credentialing and training program is being adopted by a consortium of lumber and forest products groups in three new England states, under a new skilled workforce initiative led by a regional wood products trade group.

The initiative, which will incorporate WCA job skills testing, is a collaboration between the Northern Forest Center and key partners. The idea behind the effort is to help the wood products industry be economically competitive by ensuring that it has a highly skilled workforce.



Basement Sales Boom

NEW HOLLAND, PA — With the housing and remodeling uptick, basement storage also seems poised for takeoff. Superior Walls of America, which makes foundations, says it has seen a 20% sales increase over 2012. What's driving those numbers? A study by the National Association of Home Builders showed that 76% of Gen Y and 74% of Gen X want basements. “Younger home buyers, who are investing in new construction homes, are looking for added living space and easily-accessible storage,” says Jim Costello, president of Superior Walls.

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High Mileage Deck Flooring

By Bill Esler

Red and white oak with lots of miles on it constitutes the latest offering from Viridian Reclaimed Wood. The Portland, OR lumber source introduced Truck Deck, a line of domestically sourced flooring and paneling derived from reclaimed red oak and white oak truck decking.

“The giant tractor-trailers used to move goods from coast to coast typically contain wide planks of heavy oak decking,” explains co-owner Joe Mitchoff, “but the hard-driven miles take their toll on these truck decks. Even though they are plenty thick, they have to be replaced at regular intervals. We upcycle them into flooring and panels of unparalleled character.”

Mitchoff says it is Viridian’s most rustic product by far. Its top face has deep gouges, a thick patina and jet-black openings where the bolts were literally torched out of their holes. The underside also can be used; it is less rough and features rust bands where it rested on a truck’s metal trailer frame.

Sand Before Touching

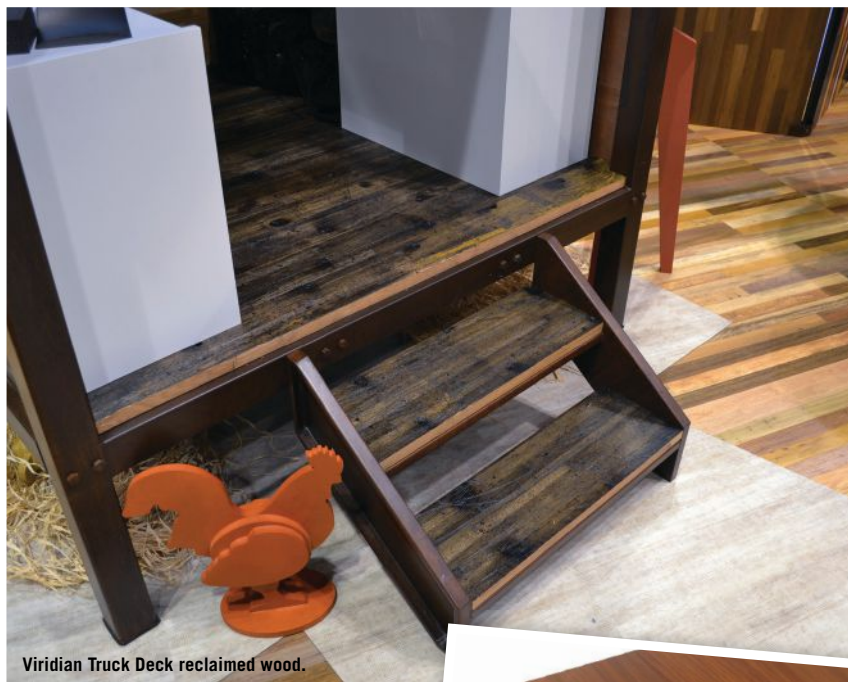
Viridian squares up the edges and puts it through a brushing process to remove loose dirt and major catches, but Truck Deck will require additional sanding on site if it is going to be touched or brushed against. It is $\frac{3}{4}$ " (or 1", if requested) thick, 5- $\frac{1}{2}$ " wide, comes in 3' to 6' lengths, with a Class A fire rating. The flooring and paneling are designed to be face nailed or glued and are available prefinished or unfinished.

Since 2004, Viridian has made a specialty of reclaiming wood, but has approached it a little different than some suppliers to this segment.

“Most reclaimed lumber companies find their inspiration in old barns and schoolhouses,” says co-founder Joe Mitchoff. Instead, Mitchoff and his partners prowled shipyards, with the idea to rescue wood used in shipping and crating, sourced from all over the world.

“Wood from far off ports arrives daily as

Rough-hewn Viridian red and white oak flooring and paneling has a lot of miles: it's culled from truck beds.



Viridian Truck Deck reclaimed wood.

shipping pallets and crates, but it's extremely difficult to recycle,” Mitchoff says. “Through years of trial and error we pioneered a method for up-cycling these dockside discards.”

One example is European Beech flooring reclaimed from beech shipping crates. The European Beech is derived from large-scale crates used to ship wind turbines and other steel cargoes from northern Europe and reclaimed locally from the Port of Vancouver.

“The grain pattern in this beech flooring is more subtle than our other reclaimed flooring options,” Mitchoff said. “Mostly it's mellow golds, tans and peaches, and black veining in some boards that creates a marbled look. Small iridescent figuring adds another level of depth to this incredibly durable wood.” The flooring is milled in thicknesses of $\frac{3}{4}$ ", in 2 $\frac{1}{2}$ ", 3", 4", 5" and 6" widths.

From shipping container recycling Viridian expanded to new post-industrial wood sources. A line of 4x8-foot architectural-grade veneered panels is milled from reclaimed North American wood – derived from old-growth redwood used in wine tanks. Oregon black



walnut is reclaimed from urban salvage, and old-growth Douglas fir from warehouse deconstruction. Viridian (viridianwood.com) says its wood can contribute points toward earning U.S. Green Building Council's LEED Credits: MRc3: (Materials Reuse), MRc4 (Recycled Content), MRc5 (Regional Materials) and MRc7 (Certified Wood).



See a slideshow of Viridian's reclaimed offerings: woodworkingnetwork.com/cwb



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Starting Anew in Wood

Creating a product category, DODOcase invented bamboo cases for iPads.

By Mark Vruno

DODOcase sells millions of dollars worth of bamboo cases, precision routed on a pair of CNC machines. In its 10,000-sq.-ft. San Francisco production operation, laser machines cut holes to exacting tolerances in those cases.

While DODOcase might not think of itself as a wood products manufacturer, it is actually among the larger firms in the country, with millions of dollars in sales.

Founder Patrick Buckley was 29 when he launched the business in 2009, on a hunch that high-tech iPad lovers would like an elegant, low-tech protective wrap for their machines.

Entering a competition at Shopify, Buckley developed his DODOcase, a wood back with a bookcover front. Buckley spent several weeks learning to operate a CNC machine at TechShop in San Francisco, then

went to work. When DODOcase netted a reported \$1 million in sales in 90 days – they sell for \$60 and up at online stores – Buckley and partners Craig Dalton and Mark Manning began manufacturing in earnest. *CWB* caught up with Buckley to talk to him about the venture into woodworking.

CWB: *Patrick, why do consumers want to wrap a high tech iPad in a bamboo case?*

I think it is largely the emotional experi-



DODOcase wood cases for iPads and Androids come in a variety of styles, or can be customized at DODOcase.com's online store.



DODOcase
president
Craig Dalton,
CEO Patrick
Buckley, COO
Mark Manning
at the Routech.
Photo: Joe Pugliese/August.



ence of feeling something familiar in your hands. We all grew up holding books in our hands. We all have a nostalgic connection to that experience and it just feels right even now with newer technology.

CWB: *In starting your business, you tested the DODOcase product idea at Shopify – what kind of feedback did you get?*

Shopify was a great tool for us to get an e-commerce website up and running in un-

der one day. To drive our first customers to **DODOcase.com** we did some old fashioned feet-on-the-street marketing, handing out flyers at Apple stores the day the iPad launched. Within months we were selling 1,000's of cases; we took that as a sign that people really loved the DODOcase.

CWB: *How was DODOcase's design adjusted as a result of Shopify feedback?*

Because we launched our iPad case



CNCs for a Start-Up Shop

Soon after beginning in business, DODOcase established production operations, adding a CNC router.

"We first bought a used Routech for a killer deal," says Buckley. "We found we needed more capacity and also wanted a backup, so we got a second, larger router."

The newest one is an Scm Pratih. "For ease of maintenance and technical support we wanted to stay with the Scm line of machines," Buckley says. "The size of the machine had to do with lowering the machining time per piece, by amortizing the tool change times over a larger number of parts."

Hands-on production was no problem for Buckley, who was trained as an engineer at MIT.

"I learned how to run and program the machine myself, and for the first 12 months of our business, I spent many hours running the CNC. But we did eventually get some experienced CNC operators."

DODOcase also operates a Rabbit 60 watt CO2 laser to cut out the power buttons for the iPad cases. "It is a very small piece that we couldn't easily cut on the router," says Dempsey.

Woodworking Inventors Series:
Slideshows and videos at WoodworkingNetwork.com/CWB

on such a short time frame we had a lot of improvements along the way. Over the first 18 months we probably redesigned the bamboo tray 10 times for an improvement in the strength of the design by over 230% and a reduction of 80% in material costs.

CWB: *Working with bamboo, how does it perform in machining or gluing?*

Bamboo is tricky to work with for a couple reasons. It dulls tools incredibly

quickly, even if you are using carbide. I have been told that is because bamboo is actually a grass (not wood) that grows in very clay rich soils and so sucks up a lot of silica (think beach sand) and this dulls tools. Bamboo also splinters easily and so you have to machine it carefully or you can scrap a lot of pieces.

We choose to work with bamboo despite these challenges because of it's eco-sus-

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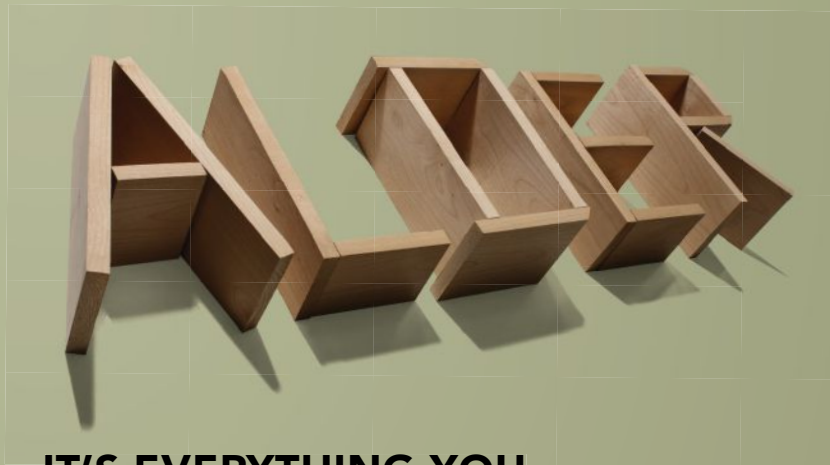
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tainability properties as well as because of the strength it offers as well as its lightness.

CWB: *Do you test different bamboo sources? Or other species?*

No; the bamboo partner we work with has been great. We have looked at some other species but nothing we found matched bamboo's strength-to-weight ratio.

CWB: *Why manufacture in-house versus outsource and assemble components?*

It is important to us to be able to make improvements to our product quickly. Having the production in-house we can make changes and improvements whenever we want. It has also been important for us to launch new products quickly as Apple or Google release new tablets and phones. We can usually be in production in 1-2 days from the time we have a physical device.

CWB: *Are you binding in-house now?*

Yes we are. In addition to our woodshop we have a full book bindery, silk screening studio for our cases and a sewing shop for our line of sleeves and wallets.

CWB: *Are consumers more apt to order custom one-off designs, or off-the-shelf?*

Both! We have found that 30-40% of people want to personalize or build a custom case when ordering online.

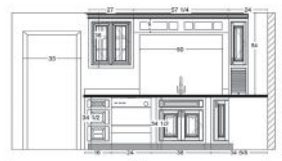
CWB: *Did your team have background in manufacturing?*

I was trained as a mechanical engineer but never applied it to manufacturing; Craig worked in bike industry sales; Mark previously worked with factories in anti-counterfeiting systems. Needless to say, none of us had ever built a factory.

More Q&A and a slideshow of DODOcase at WoodworkingNetwork.com/CWB

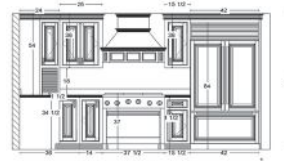


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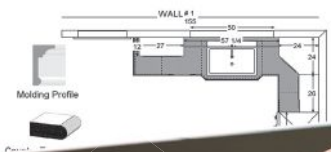
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SCALE: 1/4" = 1'-0"



ELEVATION 2

SCALE: 1/4" = 1'-0"



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Super Glue for Wood Jointery

By Bill Esler

A wood adhesive eliminates water as a solvent, and bonds in minutes. But users may need to cut some joints more tightly to use it.



Wood adhesive may seem like an unlikely place for a venture capital start-up. But Cincinnati-based Bioformix has decided to start there, bringing Nexabond 2500 Instant Wood Adhesive to market late last year.

Bioformix describes Nexabond as a high viscosity, water-free adhesive for assembly of materials that require uniform stress distribution and high strength. But in layman's terms, it's a Super Glue for wood.

The intellectual property behind Nexabond stems from a high-powered team of scientists who originated at Dow, Loctite and other chemical companies.

So how does this glue behave differently? It is made without any solvent – water is the solvent in white glue. That means components glued with Nexabond achieve high bonding strength in minutes, since there is nothing to evaporate.

But it also means wood joints don't swell, eliminating long dry times before finishing. On the plus side, this means Nexabond 2500 can bond even oily woods. And to a large ex-

tent, it either reduces the need for clamping.

But in practice, this means you may be cutting joints and setting dowels differently. Over centuries the projection of how a dovetail might swell then contract as the glue cures is part of the art of the woodworking process.

With Nexabond, as we saw in the lab, you glue just one side of a joint, not both – then push the pieces together. If the workpiece isn't too large, you can hold it steady for a minute while it presets. And within 3 minutes it's at nearly full strength. This means its open time is much shorter than carpenters glue. So using Nexabond means cutting tighter joints. And it means planning that the glue will set much faster than you are used to. Is this practical? In many cases, yes.

Slideshow of Nexabond in the laboratory.
WoodworkingNetwork.com/cwb



Pocket Screw Automation Trim at Bottom

Safety Speed Manufacturing has introduced a screw pocket machine, the SPM301.

Built in the U.S., the SPM301 has a cam-driven action which Safety Speed says provides a fast, smooth cutting action that is under complete mechanical control throughout the machine cycle, increasing tool life.

A great video (watch it using the QR code below) shows the machine in operation – you can watch the pilot drill and ball end mill alternately move into position to produce the low-angle screw pocket. The SPM301 mechanical linkage allows the pilot drill and router bit to cut at the same time, reducing cycle time.

In the video, you can also see a demonstration of the key adjustments, made from the top down for setting the back fence, stop rail, and depth adjustment. The built-in analog depth gauge allows quick material thickness changeovers.

Another nice touch: it requires only standard 110 VAC and 1-2 CFM compressed air at 80 PSI. and all-around better than any other screw pocket machine currently on the market."



Video at
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A Woodworker's Reinvention

An OR teacher remade his woodworking class, winning national acclaim.

By Dean Mattson, North Salem High School, Salem, OR

It is so surreal to have recognized our educational program at North Salem High School in Salem, OR. I was surprised and honored at the recognition. At the Stiles Executive Briefing Conference (EBC), industry leaders were asking me, "What is the secret to attracting so many high school young people to enroll in your woods program and then upon graduation, place them into good paying jobs when so many programs are being closed?"

Well, it started with a personal reinven-

tion after the passing of my wife and dealing with the financial crisis of 2008 when my cabinet company lost a great deal of work. I was forced to rethink my life. I was beginning to think of pursuing some form of teaching. Then a call came that asked for my help in finding a replacement for the legendary woods teacher David Anderson who was retiring at NSHS after 30 years. Six months later I was awarded the job.

Like many woods programs around the country, this one was shrinking. It had be-

come, for the most part, a dumping ground by counselors and administrators for problem kids. I was extremely frustrated. It was an uncomfortable environment with all the dangerous outdated equipment to manage. I had nightmares of cut-off hands.

As a former marketing professional and an owner of a cabinet manufacturing company, I needed to change the image and produce products that young people could embrace. I needed to react quickly, but that is not the norm for public education.



Dean Mattson, plaid vest, talks with woodshop students at North Salem High School.



Photographer:
Sarah Grosvenor

In addition to this, NSHS is a Title I school with a poverty culture and over 20 percent of the students are homeless.

So, I developed a vision and implemented it with the help of many people. I wanted students of all colors, English language learners, first-generation Americans, any student, to have an opportunity. I ramped up the program using Lean Manufacturing principles. I contacted all the business partners in the industry that I have worked with and told this story. They opened up

their check books, sent truckloads of supplies to grow our program into one of the largest woodworking programs in the country. To date, more than \$600,000 has been raised for the program. This along with the support of Salem-Keizer School District has been enough. Many of our students for the first time believe they can go to college or directly into an industry that is screaming for quality young people to bring back manufacturing in America to its place of prominence.

Wood Globe Award Winners

The Woodworking Machinery Industry Association (WMIA) presented its 2013 Wooden Globe Awards during the Woodworking Industry Conference, held April 22-25 in Tempe, AZ.

The Educator of the Year award was given to woodshop teacher Dean Mattson of North Salem High School in Salem, OR.

Mattson earned a standing ovation for his acceptance speech for WMIA Educator of Year. He provided a heart-tugging tale of how his woodworking program is changing the lives of many impoverished youths for the better.

North Salem High School's woodworking program uses a STEM and CTE Model that brings together cabinet manufacturing, mathematics, engineering and the business community. The shop operates as a cabinet factory, making products that are sold to help fund course expansion and improvements.

The North Salem program has received over \$650,000 in donations from the industry, and WMIA donated six iPads to the school.

Also, the program was a part of WoodLINKS and is now a member of the Woodwork Career Alliance (WCA), giving Mattson the ability to certify his students.



For more coverage of Dean Mattson and other Wood Globe winners visit WoodworkingNetwork.com

Gyroscopic Spin Turns It In or Reverse

By Bill Esler

Reading the flick of your wrist, this DeWalt knows whether to screw in, or reverse course. The handle flips for straight line use.



A gyroscopic screwdriver sounds neat just on the surface. DeWalt (dewalt.com) says its DCF680 screwdriver is the first to integrate gyroscopic motion detectors into a professional-grade 8V screwdriver. The screwdriver is operated by built-in gyroscopic sensors – the kind of technology you’d see in video game controllers like the Wii. On the DeWalt, the sensors recognize the user’s wrist motions – a rightward twist to tighten screws, and leftward motion loosens or removes screws. How cool is that?

“Gyroscopic technology is not new to electronics,” says Jim Watson, product manager for DeWalt, but “it is one of the newest forms of technologies to be used in power tools.” Watson says this professional grade, battery-powered screwdriver provides real end user productivity.

The variable speed control also separates the DCF680 gyroscopic screwdriver from traditional stick screwdrivers and simplifies applications. An adjustable two-position handle allows operation either in-line – great

for harder to reach placers – or in a pistol grip fashion.

Sometimes task lighting built into tools can create shadows, obscuring the work area instead of making it easier to see. On the DCF680, a light on an LED ring illuminates the work area, so you get clearer vision even in confined spots, without casting shadows. The battery state of charge indicator on the top of the tool points out when to charge the battery or if you are good to go, and the ¼” hex chuck is one-handed loading and accepts 1” bit tips.

The DCF680 will be available in August in two versions: the DCF680N1, a single-battery kit, and the DCF680N2, a two-battery kit. Both come standard with a three-year limited warranty, one-year free service and a money-back guarantee.



More views and video of this tool at WoodworkingNetwork.com/cwb



A Utility Knife That's a Tool

You may not have given much thought to your utility knife. But Irwin’s FK250 Folding Utility Knife warrants attention. It’s got the heft and feel of a real tool.

It folds down to protect the blade; folds out for use. At the 45° angle you can remove the blade. In fact, that’s a major feature as well.

One of the most frequently cited user frustrations is when blades inadvertently pull out of the knife’s handle during use. Irwin engineered Blade-Lock Technology to keep the utility blade locked firmly in the handle of the knife; part of the approach is that you can only change blades when the release button is engaged, and the blade holder is in the 45° open position, exclusive to the FK250.

It’s also a bit of a Swiss Army Knife, what with its fold-out screw driver, additional bit storage for 1” insert bits for quick repairs, and #2 Phillips and #2 Square insert bits included. (It also has a built-in wire stripper.) The knife comes with three blades, and holds up to two additional blades. It also includes a liner lock for one-handed operation.

Watch tools at work in How-To Videos at WoodworkingNetwork.com





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- Amps: 11 at 110V, 5.5 at 220V
- Cutting capacity/throat: 13 1/2"
- Max. cutting height: 6"
- Footprint: 23 1/2" x 16 1/2"
- Table height above floor: 43"
- Table tilt: 45° right, 10° left
- Frame construction: cast iron
- 2 blade speeds: 1800 & 3100 FPM
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- Motor: 2 HP, 110V/220V, single-phase, TEFC capacitor start induction, 1725 RPM, 60 Hz, prewired 220V
- Amps: 20A at 110V, 10A at 220V
- Power transfer: Belt drive
- Precision-ground cast iron table
- Table size: 17" x 17" x 1 1/2" thick
- Table tilt: 10° left, 45° right
- Floor to table height: 37 1/2"
- Max. cutting height: 12 1/8"
- Blade size: 131 1/2" long
- Blade width range: 1/8" - 1" wide
- 2 blade speeds: 1700 and 3500 FPM
- Wheels: computer-balanced cast aluminum with polyurethane tires
- Wheel covers: pre-formed steel
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One Project Justifies CNC

To match a landmark's oak furnishings, Wonders of Wood added its first CNC.

Staff Report

When a highly specialized job calling for intricate, historically correct craftsmanship came through the doors at Wonders of Wood in Tracy City, TN, owner Dean Lutes knew the job would require a CNC. That would be a first for Wonders of Wood.

"I have been following the evolution of CNC technology since its inception," says Lutes, who enjoyed a successful career as

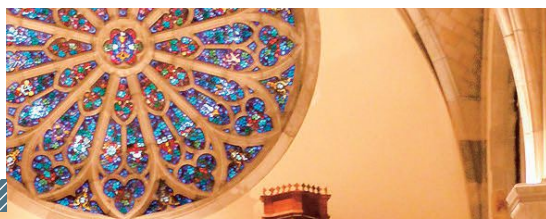
a heavy-equipment operator for 18 years before opening his woodworking shop in 1990. "Having worked with design software since 2003, making the jump into CNC machinery with this project seemed like the natural step to take for my business."

Lutes' assignment was to create an oak electronics control booth hiding sophisticated audio equipment. While that sounds simple enough, the project took on more

dimensions because the control box was to be installed into the famous All Saints' Chapel, a beautiful landmark at the University of the South (commonly known as "Sewanee"), which broke ground in 1905.

The regal-looking chapel is known for its ornate, Victorian Gothic-style architecture, patterned after the Church of England in Oxford, England, a movement that began in the late 1740s there. The Gothic revival

To match a new electronics control booth to its century old landmark setting, Lutes replicated the original detail from an existing panel detail.



Because of its landmark setting, the addition of the electronics control center (right) had to match existing details.



movement had a dramatic influence on architecture around the world, especially on educational campuses.

"What makes this job so challenging and fun is that the control booth, which we're making out of red oak, cannot look out of place in the chapel," says Lutes. "On the contrary, it must look as though it's been part of the chapel's historic interior for over a century."

Lutes estimated it would take approximately 286 man hours to create the 11 carved panels needed to cover the 8' x 6' control booth using his existing tools. And that doesn't include the time to produce the carved decorative columns and matching access door.

Using a CNC machine would cut that time requirement in half, Lutes figured, and so he was ready to jump into the CNC era.



This Compact Shop Does It All

Wonders of Wood packs a lot of action into its 48x88-foot barn-shaped workshop.

Dean Lutes can process wood from start to finish: a dry kiln is adjacent to the workshop, and a sawmill direct across the street. A wood storage room is within the shop.

The shop has a pair of table saws, planer, wood. A single area is dedicated to drilling and sanding.

Another area is dedicated to assembly. Wall-mounted panels swing out to an easel position for doing bent arch doorways.

A separate spray room and drying room are also set aside.

For the chapel project, individual panels were pinned to a spoil board and routed. The panels were then assembled on a Kreg easel and clamped together to form the sides of the electronic control box.

Cutting was done on the Swift CNC, driven by G-code exported from Vec-tric Aspire software. The G-code delivers cutting machine programming to the Laguna "Touch" Series CNC controller, an industrial PLC based controller developed by Laguna Tools and industry giant B & R Automation (Austria).

Slide Show Gallery: Woodworking
Network.com/CWB

managing | wonders of wood

He acquired a Swift CNC Machine from Laguna Tools

Lutes said he appreciated the machine's versatility, and that it could be outfitted with a vacuum table, so he could use it for all phases of his business.

Lutes used existing woodwork in the chapel to establish patterns and built drawings with Vectric Aspire software. These allowed the Swift CNC to complete the exacting

replication of the original woodwork, carved by hand more than a century before. The completed project fits naturally into the landmark setting of the Old Sewanee chapel. The solid frame of the Swift was an important factor in attaining consistency in cutting the oak panels. Lutes even entered the project in the *Custom Woodworking Business Design Portfolio Awards*.

When he was weighing his buy, says

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Vectric Aspire

CNC Machine

Laguna Swift

Shop Equipment

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Lutes, "I took note of its solid, one-piece, tubular welded frame construction. Going to various shows over the years, I could see that other CNC machines on the market were made from cheaper aluminum with bolted-together frames requiring assembling by the customer; that meant me!

"That the machine was also affordable didn't hurt, either," he said. "I also appreciated the tremendous customer service I've been getting from 'Router' Bob Alsup and other folks at Laguna Tools," he said. "If I have a question, I get fast follow up."

Career Change

While Lutes comes by his woodworking talents naturally enough – his father was an accomplished carpenter – it wasn't until he grew tired of high-rise construction that he returned to his woodworking roots.

"I just got tired of doing heavy, high rise construction and decided to find another job," Lutes said. "I answered a help-wanted ad for a trim carpenter position to help with building Blockbuster Video Stores. That contracting assignment took me all over the country and led to a number of other jobs as well."

Lutes eventually settled in Tracy, where he began building his Wonders of Wood woodworking business. Lutes says business has grown steadily over the years thanks to word of mouth. In his shop he handles everything from simple woodworking jobs to ornate reproductions of antique furniture, porch columns, windows and doors, as well as custom kitchen cabinets.

Design portfolio awards
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WOOD OF THE MONTH

JEQUITIBA Royal Substitute

By Jo-Ann Kaiser

Known also as royal mahogany, jequitiba was first introduced to the U.S. wood products market approximately 10 years ago. Since then, this South and Central American species' growth in popularity has been relatively slow as it fights for a share of the marketplace.

Although there is no relation, "Jequitiba was seen as a replacement for mahogany," said Jim Martin of Marwood Veneer, Jeffersonville, IN. He also noted that for paneling and architectural woodwork, "It has a very pleasing cathedral figure and its color is a little lighter than mahogany."

Rick Banas, vice president at Interwood Forest Products Inc., Shelbyville, IN, also commented on jequitiba's characteristics. "Jequitiba has a very pleasing and clear grain structure as well as a color ranging from caramel tan, to dark brown."

But in North America, its uses have been limited. "Personally, I believe that it is an under-utilized species [despite] its consistency in appearance and availability," Banas said.

Gary Parker, director of sales at Dooge Veneers Inc. in Grand Rapids, MI, agreed. "When it came into the U.S. market it was

used as a mahogany substitute, but South American mahogany from Mexico seems to be used in the applications that might have used royal mahogany," he said.

Names & Characteristics

The USDA Forest Products Laboratory describes *Cariniana* as a genus of about 10 species. Its heartwood is typically reddish or purplish brown, sometimes with dark streaks and usually not sharply demarcated from the more pale sapwood. The wood is said to have a medium luster and a grain that is straight to interlocked.

Trees from the species can range in height from 100 to 130 feet tall with trunk diameters that can be as wide as 4 to 6 feet in diameter. The wood air-dries rapidly with only a slight tendency to warp or check; a kiln schedule of T3-D2 for 4/4 stock and a schedule of T3-D1 for 8/4 stock is recommended.

The working properties for *Cariniana pyriformis* and some of the other *Cariniana* species are generally regarded as satisfactory, although some material will have a slight blunting effect on cutting edges and some species in the group reportedly cause rapid dulling of cutting tools.

FAMILY NAMES

Cariniana pyriformis and *Cariniana legalis* of the Family Lecythidaceae

OTHER NAMES

Jequitiba, jequitiba rosa, abarco, albarco, bacu, South American mahogany, yesquero, estopeiro, jequitiba branco, jequitiba.

HEIGHT/WEIGHT

Weight varies from 31 to 43 pounds per cubic foot, with an average weight of 36 pounds per cubic foot and a specific gravity of 0.58.

PROPERTIES

The wood dries quickly and well without problems and is considered fairly easy to kiln dry without degrade. Jequitiba works well with hand and machine tools. Experts recommend cutting tools be kept sharp to avoid problems of raised grain. Pre-boring is recommended.

The heartwood is reportedly durable, especially with deeply colored material, and has good resistance to termite attack.



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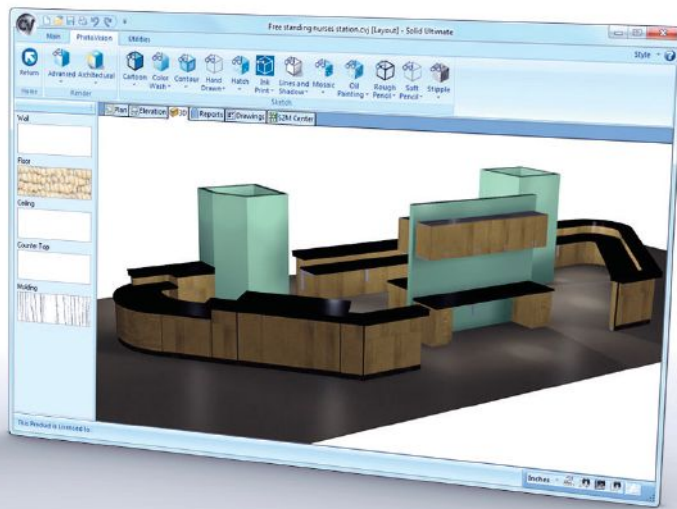
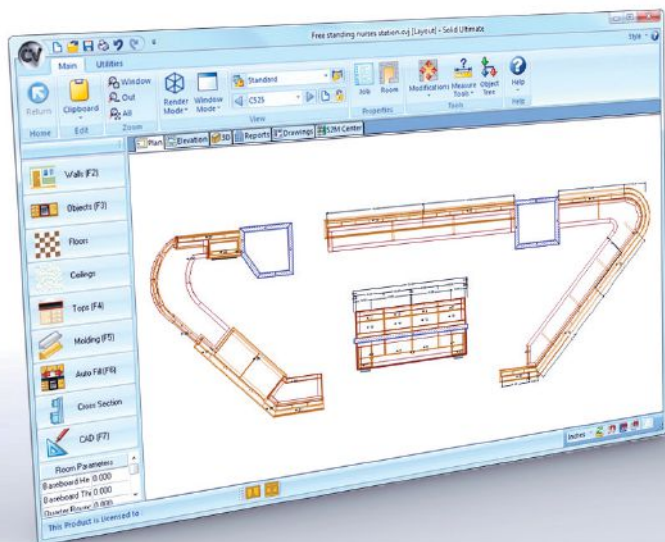
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Grant Nicholson often uses maple, cherry or walnut in projects like the carving below in concentric radiating ripples.

CNC Tricks He's Learned

Grant Nicholson's graphics background makes him fearless in pushing his CNC.

by Bill Esler



Woodworker Grant Nicholson was looking for a tool that could turn his design concepts into physical objects. Nicholson Design (gnicholsondesign.com), the Owen Sound, ON, company he founded, produces a wide range of products: floor inlays, newels for stairposts, kitchen cabinets, custom trim to match curved windows and many other objects.

As a former graphic designer, some of his CNC applications are unique, and so was his machine selection process.

"The ability of economical CNC machines to produce finely detailed work was a big factor in encouraging me to strike out on my own," Nicholson says.

Just before starting his own firm, Nicholson spent nine years working for a local government agency, designing museum exhibits, tourism promotions, signs and publications. As he started planning his woodworking business, he looked at several alternate production methods, including 3D printing (good but limited to a few

different types of plastics) and waterjet and plasma cutting (limited to producing 2D objects). He ultimately chose to go with a CNC router since it can produce 3D designs and work with nearly any type of wood – as well as foam, plastic and synthetic wood.

"I think of the router as a virtual chisel," says Nicholson. He chose a Techno LC 489 CNC, partly because of its closed loop servo control, and its ball screw drives, which he says provides greater accuracy and durability than other systems in its price range

that he reviewed. Ball screws have good power transmission due to the rolling ball contact between the nut and screws, making it possible to produce wooden parts to a machine resolution of 0.0005 inch.

Nicholson ordered a number of router accessories and uses a lot of software. One accessory is a micro drop coolant head, which sprays a fine droplet of coolant onto

the workpiece when cutting nonferrous metals, such as aluminum and brass. Another is the Techno vision registration system, which orients the cutter to a printed image, correcting for linear or rotational errors in the image or material placement.

Another add-on is a touch probe inserted into the CNC machine's collet to copy an existing 3D surface, reverse engineering

CNC Arsenal

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Techno LC 489

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Touch probe copies 3D objects
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it. Nicholson used the probe to collect a 3D point cloud of a sculpture a client wanted to copy. He imported that into his CAD software, and used EnRoute, Adobe Illustrator, Photoshop and Z-Brush softwares to manipulate the CAD data and cut the part.

"Advancements in software, coupled with these devices, offer an unprecedented opportunity for the creative designer to produce their ideas in full dimension, in house," says Nicholson.

In addition to cabinets and decorative moulding, Nicholson makes 3D engraved signs, painting or applying vinyl to the background material. A masking material is then applied to the surface. Using pointed V-carving bits, text or imagery is machined into the sign surface, and the machined areas painted. When the mask is removed, the sign exhibits clean painted edges against its colored background.

Nicholson says many router software packages employ a method of "tone extrusion," whereby the tone of an image corresponds to its depth. The darker the tone of an image, the deeper the resulting relief.

A table project features a maple leaf carving, surrounded by concentric ripples radiating outward. Nicholson converted a photo of a leaf into a toned extrusion, then drew the cross-section of a ripple and spun it around to create a 3D shape. He used the router to machine the shape onto the rectangular top of a coffee table – the 3D artwork will be protected beneath a glass top.

"The router helps me supply virtually anything my customers can imagine," Nicholson says.

Find out more about Grant Nicholson's CNC tips at
WoodworkingNetwork.com/CWB





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Recreating an **Apple Table**

Here's how we adapted an Apple retail store veneered maple display table into a custom desk for a client.

*By Jared Patchin, J Alexander
Fine Woodworking, Boise, ID*



We had a client from Memphis, TN, contact us about designing and building a maple table. The client saw the original in an Apple store, being used as a display table, but he wanted to use the same design and turn it into a desk.

The desk is downright massive! It measures 78" wide, 29½" high, 22" deep, and the legs and the top are 3" thick. The design centerpiece is the huge box joints where the leg connects to the top. The end grain of the maple is much darker than the face grain, so this construction method really pops.

The first step we tackled was to build the three torsion boxes that would make up the two legs and the desk top from MDF: ½" for the skins, ¾" for interior framework.

Next came the box joint. We made it inde-

pendent of the table top and legs, rather than trying to make them an integrated part of the table top and legs. We accomplished this by dividing the 3" deep finger joint in half and constructing the bottom half from MDF and the top from hard maple end grain.

We glued two ¾" pieces of MDF together. Once the glue dried overnight, we cut five equal-width pieces that spanned the entire width of the torsion box. We then clamped the outside and middle blocks to the end of the top with polyurethane glue, using the two blocks that would be glued to the legs as a perfectly sized spacer between.

The rest of the box joint is a 1½" thick piece of end grain maple glued to the half box joints we just created. We began by milling some 8/4



maple to 1 5/8" thick and gluing two pieces together to form a 3¼" thick piece. Once the glue dried, we milled the width to 4½", and cut 10 caps from the maple stock. We then glued on the caps using liberal amounts of polyurethane glue and clamps. See slides: WoodworkingNetwork.com/wood-blogs/jared-patchin

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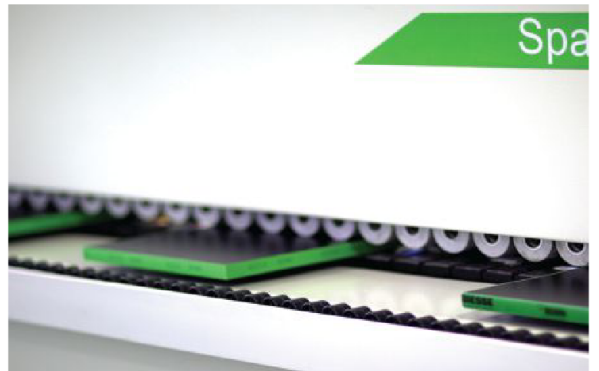
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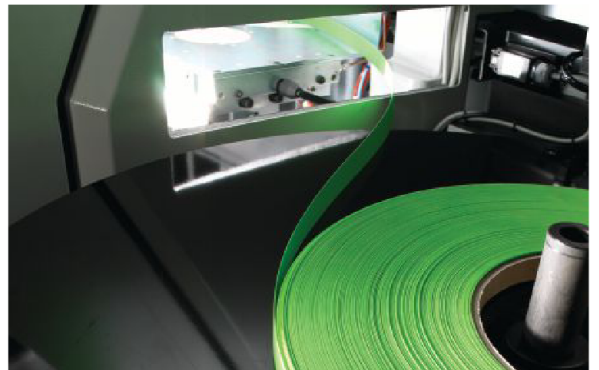
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Tips to Optimize Spray Gun Efficiency

Transfer efficiency is the amount of wood coating that actually lands on the item that you are spraying. Here are factors affecting the T.E. number.

By Bernie Bottens



Transfer Efficiency, T.E. for short, is the amount of coating that actually lands on the item that you are spraying. That efficiency is discussed as a percentage: 100% means that everything that left the tip of the finishing spray gun made it onto your project, and it's downhill from there to what reality truly is. Reaching 100% T.E. is not easy.

The magical transfer efficiency number is, as the chart shows, 65%. Why that number? Because HVLP (that stands for "high volume low pressure") guns are designed to have a minimum transfer efficiency of 65%.

The most obvious impact on efficiency is your finish person's lead and lag technique. Some folks don't cycle the fluid valve at the

end of a pass. They just leave it open, move the gun, and reverse direction. You will waste coating if you end each pass without cycling the fluid valve. Allowing the fluid valve to remain open when the pattern is sprayed into the air is wasteful of coating and booth filters. The best bet is to cycle the fluid valve on or off as close as possible to the edge of the workpiece.

Also, look at the coating that you are spraying, and the surface that you are spraying onto. Thicker coatings require more energy that will be needed to shear the coating. The thicker the coating, the harder it may be to break it up into small enough droplets. The more energy exerted, the more bounce back and overspray that will occur. Bounce back and overspray tend to



SATA

end up on you, on the floor, and on the booth filters. Obviously, a flat surface perfectly positions you for the highest T.E. If it's curved or has openings, then your T.E. may suffer.

More Bernie at woodworkingnetwork.com/wood-blogs/bernie-bottens



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3 Tips for Sanding With Flap Wheels

by Jacob Malherbe, president of QuickWood

Anyone can sand a flat component, but having a work piece with contours creates some challenges. Flap wheels, brush-like sanding wheels, can reach uniformly into profiled or contour surfaces, like doors or furniture parts, and according to studies is more than 10 times faster than hand sanding. Here are 5 tips.

Sharp edges – flap wheels are great at eliminating sharp edges, a weak area in the finish as there is not enough mass for stain, sealer and top coat to properly adhere. A flap wheel does an even break of the edges, so the parts are ready for stain and sealer coat.

De-nibbing – After that sanding step is complete, you will always find loose fibers from the sanding operation that are part of the surface of the wood. Unless these are removed, you will feel these fibers after a sealer coat or primer has been applied and cured.

The surface of the material feels rough, partly as a result of the fibers absorbing sealer or primer and expanding and then drying. Use of flap wheel sanding prior to staining or priming will eliminate these loose fibers, in the process called “de-nibbing.” It will make for a much smoother

Sanding and finishing with flap wheels allow you to reach consistently and uniformly into pieces with contours or profiles.



seal coat and result in much less sealer or primer sanding prior to the top coat. You gain the added benefit of using less sealer since you are not trying to cover the fibers.

Uniform color – When sanding a work piece and applying stain, many times color will not be consistent. This usually is due to different sanding techniques or pressures being used in different areas of the work surface. It is very difficult to try and sand a flat area exactly the same as a contoured or profiled area.

As a result the pore openings in the surface of the material will be different and absorb stain at a different rate. This causes uneven color match or balance. Since flap wheels will sand 3-D products evenly, wood pore openings will be uniform, so you get a superior color balance throughout the work piece. **Quickwood.com**

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Products



▲ Automatically Adjustable Face Clamps Kreg Tool Co.

Kreg introduces its new Automaxx Face Clamps, designed to let users clamp materials of varying thicknesses without needing to adjust the clamps. The Automaxx Face Clamps are available in two versions: the KHC1410 Face Clamp and the KHC1420 Large Face Clamp. Automaxx Face Clamps feature large pivoting jaws for extra versatility and feature padded handles. kregtool.com

Tracksaw Blade Series Freud America

Freud's Tracksaw Blade Series offers saw blades with anti-vibration, unique tooth grind and coating specifically designed for Festool saws and other tracksaws. The blade's anti-vibration design provides smooth and quiet cuts while the premium tooth grind delivers superior finish, and the tracksaw blades provide woodworkers with a precise cut, high-quality finish and maximum cutting life. The anti-vibration design virtually eliminates the sideways movement of the blade in the cut, which extends cutting life and keeps the cut smooth and true. freudtools.com



▲ Adjustable Bits Starborn Industries

The new SMART-BIT Deck Screw Depth Setter from Starborn is an adjustable tool, which works equally well with Starborn fasteners and other fastening products, and is ideal for ensuring screws are set to the desired depth below the work surface in decking, dry-wall and general building applications. It features an auto-stop mechanism that automatically disengages the driver bit and stops the screw from driving further once the desired depth is reached, without stripping the screw recess. starbornindustries.com



Products



▲ Ergonomic Compact Stackers

Southworth Products Corp

Stack-n-Go fully-powered compact stackers from Southworth Products are built on short, stable wheelbases to provide maximum maneuverability. Applications include light manufacturing, warehousing, assembly and retail facilities. The machines are designed for transporting loads on pallets, stacking loads up to 7½' high. southworthproducts.com

► Undermount Soft-Close Slides

Atlantic Hardware Corp.



Atlantic Hardware offers the redesigned E.Motion

Drawer System, with a range of applications, including high-end kitchen and bath cabinets. The E.Motion Drawer System, undermount concealed soft closing slides with full extension and quick adjust front brackets, offers a low-cost option, says the company. It is available from stock in four standard sizes: 12", 15", 18" and 21".

atlantichardwarecorp.com

► Dust Collector Retrofit

Oneida Air Systems Inc.

Oneida says its new Super Dust Deputy can turn any single-stage collector into a super cyclonic dust collector. The Super Dust Deputy retrofits to single-stage ½-hp to 3-hp dust collectors and can separate up to 99%-plus of woodwaste before the filter. With a compact footprint, the system's dimensions are: height of approximately 27", inlet diameter of 5" O.D., and an outlet diameter of 6". oneida-air.com



▲ Keyless Electronic Cabinet Locks

CompX Security Products

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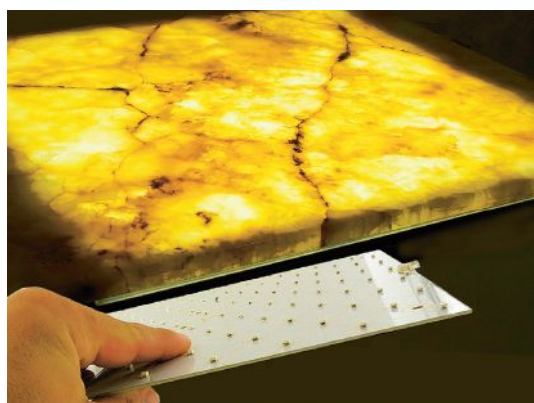
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◀ Engraving and Cutting System

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◀ Led Backlighting Panels

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► Raised Panel Wood Hood

Omega National Products

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◀ LED Panels

Nora Lighting

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► Baghouse Performance Controllers

FilterSense

The FilterSense B-PAC series of Baghouse Performance Analyzers & Controllers feature a combination of features to help powder processing, air pollution control and dust collection users meet regulatory compliance while reducing operating costs and improving the process, says the company. Optional software provides enhanced process control features and further automation of compliance record keeping. A series of models for small cartridge collectors to large multi-compartment baghouses are available. filtersense.com





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▲ Folding Utility Knife with Blade Lock Irwin Tools

Irwin Tools introduces the FK250 Folding Utility Knife with patented BladeLock Technology, engineered to keep the utility blade securely locked in the knife handle. The BladeLock technology allows users to change blades only when the release button is engaged and the blade holder is in the 45 degree open position. Other features include a fold-out screw driver and a liner lock for one-handed operation. Also included is additional bit storage for 1" insert bits and blade storage holding up to two additional blades. irwin.com



◀ Lighted Acrylic Panels Lucite International

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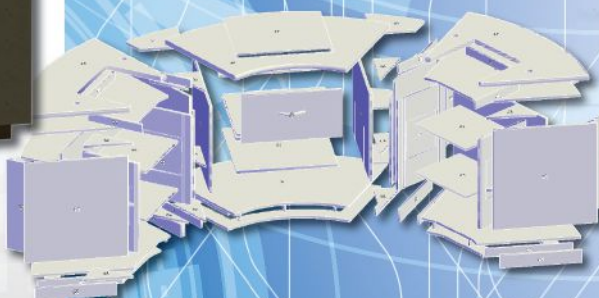
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A.A.C. Forearm Forklift, Inc.....	6624	Big On Dry S.R.L.....	9425	DAMSTOM.....	9523
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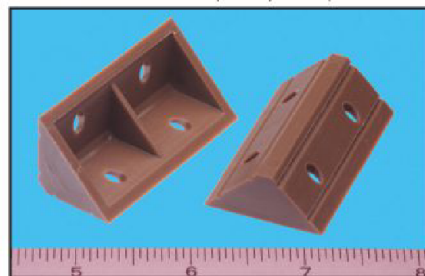
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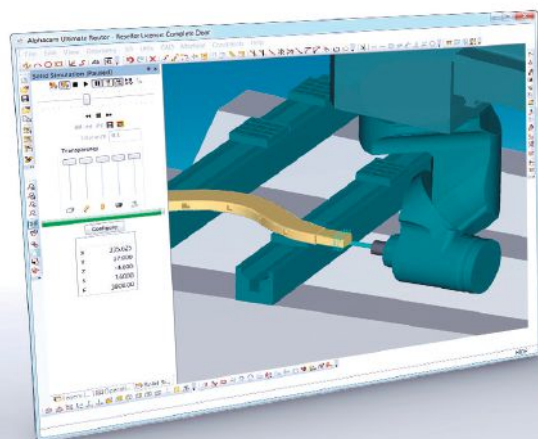
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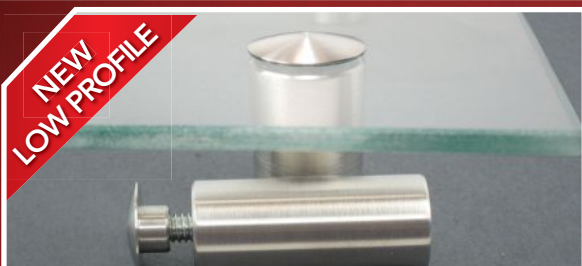
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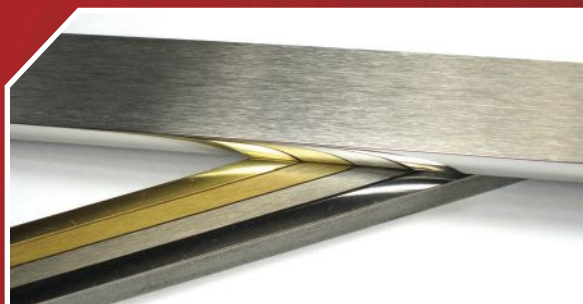
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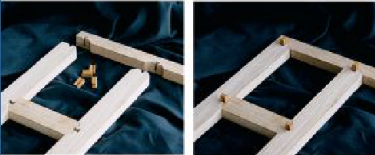
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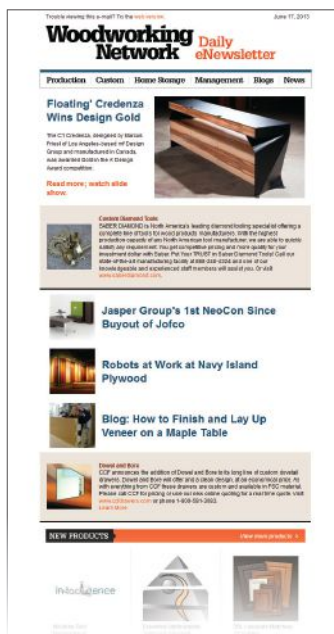
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Woodworking Network Brings a New Look and Redesigned Brands to AWFS

The wood industry's media leader redesigns its website and publications.

by Bill Esler, Editorial Director

It's no secret that Woodworking Network has reached a leading position in online coverage of the secondary wood manufacturing industry. Early to the game with ISWonline, our website has moved through several iterations on the road to continuously improving our value to the industry.

We've timed our latest developments to arrive at AWFS Fair 2013: *Red Book*, *Closets*, *Custom Woodworking Business* and *Wood Products* publications have all been redesigned. Likewise for our newsletters, WoodworkingNetwork Daily, the new Custom Interiors Weekly, and Redbook Online.

The newest development is the relaunch of WoodworkingNetwork.com. It's new design has separate landing pages allied with our publications: Custom Woodworking (CW), Production Wood Manufacturing (WP), and Closets & Home Storage.

Find Us at AWFS Booth 9803

At the AWFS Fair woodworking show, you'll be able to find us easily. We are publishing AWFS Today! each day in print. Our video team is almost fully booked up for generating live-from AWFS Fair reports at the Las Vegas Convention Center. And our team of editors and commentators will be every-

where at the Las Vegas show July 24-27:

- Editor Rich Christianson & ACSP present a closets panel. Thursday, July 25, 11 a.m.
- Publisher Laurel Didier hosts "Women in Woodworking," Thursday, July 25, Noon.
- *Wood Products'* Karen Koenig will moderate Market Leaders Friday July 26, 11 a.m.
- Join me for a fun adventure through the strangest, most interesting, and some of the most exciting stories we've been covering...Friday, July 26 at Noon.

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Planning for Winners at AWFS Fair 2013 July 24-27, Las Vegas Convention Center

Contests and award ceremonies add another dimension to the show.

By Wade Vonasek, Contributing Editor

The AWFS Fair is almost here, as thousands of woodworking professionals gather in Las Vegas (July 24-27, 2013) to learn and retool to keep their businesses productive, competitive and on the cutting edge. But the fair is more than just work for attendees. Here are some activities taking place that can serve as a diversion, from awards and contests to...belt sander races.

Accuride's Belt Sander Races

The BSRA National Championship Belt Sander Races take place Thursday, July 25, and feature an energized crowd – usually one thousand fans – and competitors rac-

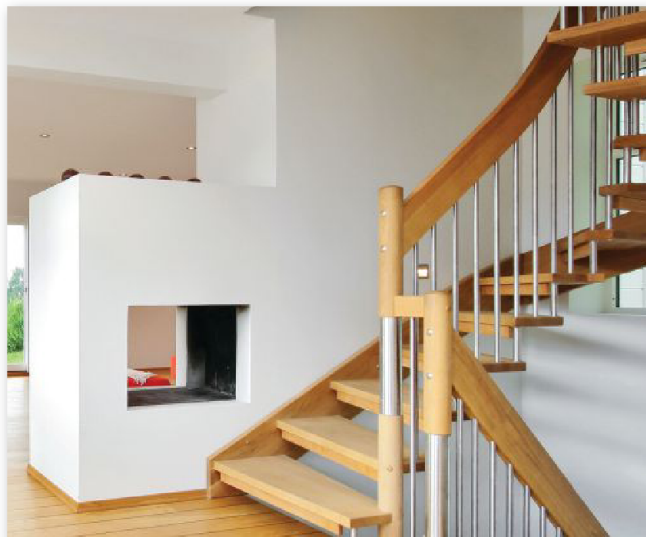
ing belt sanders on a 75-foot wooden track. There are two racing classes, Stock and Modified. Winners in each class get trophies. TigerStop will present a SawGear System to be presented as Grand Prize for the fastest modified sander. "If my belt sander wins, I will donate my Tigerstop to a school affiliated with the Woodwork Career Alliance," said Laurel Didier, VP and publisher of WoodworkingNetwork.com and of **AWFS Fair TODAY!**, the print show daily for AWFS Fair 2013. WCA (woodworkcareer.org) is doing certifications at AWFS, booth #9657, (Contact Scott Nelson at snelsonwca@gmail.com.)

A Crash & Smash Demolition Derby debuts this year, with sanders dashing into a post and falling to pieces.

AWFS Visionary Awards

Sixty-six woodworking products are entered in the Visionary Awards competition. Winners in five categories – Environmental, Ergonomics, Safety, Innovative Technology and Productivity – will be judged on creativity, quality and ingenuity. The awards will be given at a presentation on Friday, July 26, in the AWFS Theatre. The Visionary Awards (formerly the Sequoia Awards) get a newly designed trophy,

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to be unveiled at the show. Entrants will be featured in the AWFS TODAY! publication.

Fresh Wood Student Competition

The 2013 Fresh Wood Student Competition provides a look the next generation of up-and-coming woodworkers. Students from high school and post-secondary woodworking programs in North America will have their construction and design projects on display at the show and the winners will be announced at an Award Ceremony at the Fresh Wood Display.

CMA Wood Diamond Awards

The Cabinet Makers Association Wood Diamond Awards will be announced in numerous categories, including kitchen, bath, furniture, closet, commercial/institutional, architectural millwork, store fixture and more. A solid cherry customized plaque will be awarded to 1st place win-

ners at 11:00 am on Thursday morning, July 25, at CMA booth #9918.

WorldSkills Cabinet Qualifying Trials

AWFS invited the top scoring SkillsUSA national cabinetmaking champions to compete in the 2013 WorldSkills Cabinetmaking Qualifying Trial at the Fair. The contest determines which student will represent the United States at the 2015 WorldSkills Competition in Sao Paolo, Brazil.

Competitors will work in a fully-functioning 1,600 square-foot cabinet shop at the show in booth #9251 building an advanced cabinet, which must include a door and a drawer box, handcut dovetail joinery, veneer, edgebanding, built-in drawer slides and hardware installation.

The winner will be announced Saturday, July 27 at 11:00 a.m. at the booth. The awards ceremony will be emceed by Tommy MacDonald from the PBS show "Rough

Cut Woodworking with Tommy Mac."

Veneer Tech Craftsman's Challenge

Veneer Technologies' Craftsman's Challenge Awards are given to projects that contain veneer material. Announced Thursday, the Grand Prize winner will receive \$3000; other category winners will each receive \$1000.

SawStop Panel Sweepstakes

Northwest Hardwoods will be giving away a standard model 10" SawStop Industrial Cabinet saw to the winner of a random drawing held on July 10. Entrants built an original cabinet using Alder hardwood.

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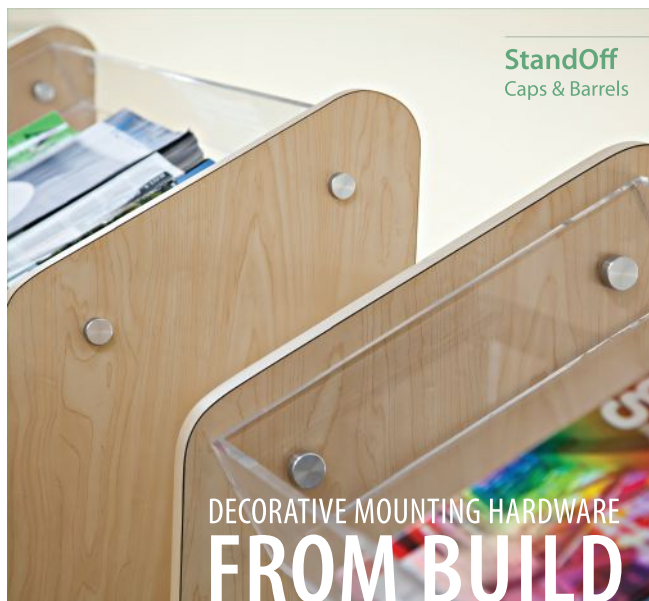
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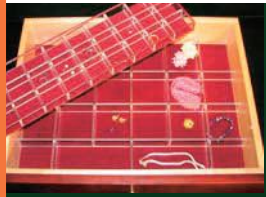
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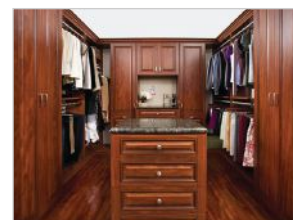
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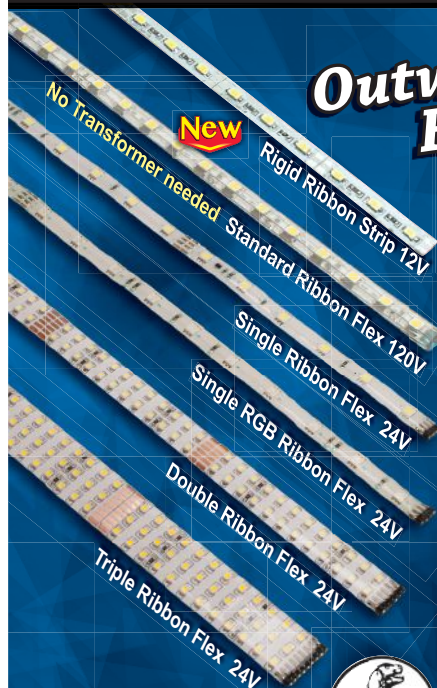
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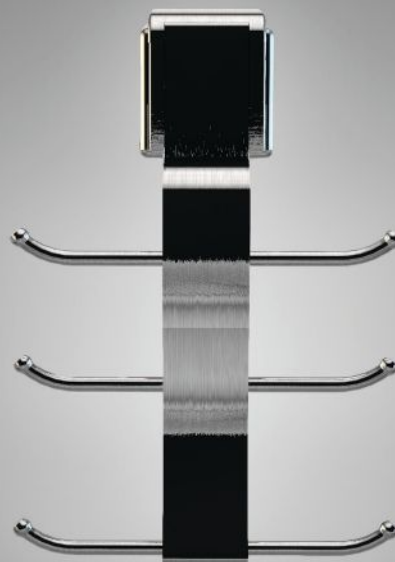
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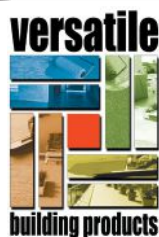
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Cover and above: Hafele America

Web Tools Lets Clients Steer Design

Closet companies are offering new online design tools to highlight product range and design flexibility.

Online design tools are becoming increasingly popular as companies look for ways to showcase their diverse product line and to engage the customer – both design professionals and consumers – visually.

Organized Living, Cincinnati, OH, debuted an online design software, “Design Your Own,” allowing professional users to create custom storage designs.

“Design Your Own is incredibly helpful,” says Amanda LeBlanc, professional organizer for The Amandas, Birmingham, AL, and Organized Living dealer and spokesperson. “Creating organized spaces with functional systems is important to the success of The Amandas and our clients.”

Solid Wood Closets in Glendale, CA, introduced an online design tool for its solid hardwood systems aimed at consumers. Spokesperson Natalie Portman says the tool makes it easy for the client to visualize her new closet. “It will also allow customers to place an order for the specific products needed online based on their design,” she adds.

The Stow Co., Holland, MI, with each of its brands, ORG Home, EasyClosets and Easy Track, offers web design tools for both professionals and home owners. As more customers go online to find their dream designs on **Houzz.com** or Pinterest, closet retailers and wholesalers offering these web-based design tools will likely have an advantage.

Find out more about the online design tool options closet companies are launching at WoodworkingNetwork.com/Closets



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Carson Becomes ORG Home Dealer

STARTING HIS FIRST BUSINESS over 20 years ago, Mike Carson, former owner of Closet Works, Elmhurst, IL, founder of the National Closet Group (NCG) and past president of the Association of Closet & Storage Professionals (ACSP), had a huge decision to make — open a franchise or manufacture. Carson chose manufacturing because at that time it offered flexibility for custom projects and quality control. But operating a manufacturing shop felt like running two companies, he says.

Upon launching his latest venture, Carson Closets & Cabinetry, Bensenville, IL, Carson decided to take a different approach, becoming a dealer for the ORG Home brand from Holland, MI-based The Stow Company.

“When I decided to go back into the closet business, what I discovered I loved the most was design, sales and installation,” he says. “And, ORG Home has so much more than what I could build on my own.”

After taking a tour of The Stow Company’s 200,000-square-foot state-of-the-art manufacturing plant in March, Carson says he was sold “immediately.”

This partnership with ORG Home seemed to Carson the best way to begin his next phase in the industry. From the extensive product selection, three-day manufacturing lead time to the dealer support offered, including its proprietary design software, ORGdesign, “ORG Home allows dealers to design easily and provides business management tools,” he adds.

Carl Seymour, vice president of ORG Home dealer network, says that the company uses a variety of resources and materials to aid dealers, including online webinars. He also notes that the design software allows dealers to design onsite and show clients drawings in full-color, 3-D renderings.

Launched in May, Carson Closets & Cabinetry offers custom storage solutions, including closets, garage cabinets, kitchen pantry areas, wallbeds, home offices, laundry rooms and more.

A KITCHEN/BATH INDUSTRY MODEL?

Carson says the closets industry seems to be moving in the direction of designers focusing solely on design, sales and installation, and working with outside manufacturing vendors, similar to the kitchen/bath industry with a number of large cabinet manufacturers supplying dealers/designers.

“It’s really becoming more about design and service,” he notes. “Having a manufacturing partner provides the opportunity to offer more home services,” because the competition is now more diversified than ever and closet companies will need to adapt to this new environment. **carsonclosets.com**



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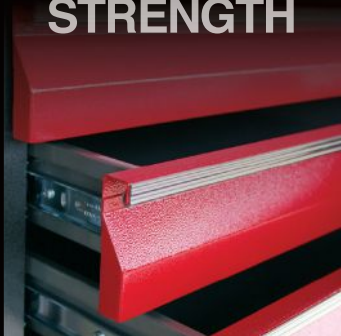
ORG Home Brings Solutions

ORG Home, a part of the The Stow Company, located in Holland, MI, is available through authorized independent dealers. The Stow Company also has two additional brands, EasyClosets, which is sold online and Easy Track for the DIY market.

Manufactured in a 200,000-square-foot plant, ORG Home includes 22 thermally fused laminate colors, many wood veneer finishes, nine styles for door/drawer fronts, several types of drawer construction, and a wide selection of accessories and hardware. Dealers use ORGdesign to create full color, 3D renderings. orghome.com



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Portable Tools Power Job Site Installs

Having the right power tools on the onsite during installation can 'make or break' the entire project.

Many factors, including design and manufacturing, are critical in creating the perfect walk-in closet, pantry, mud room or home office system. But the rubber meets the road at installation. The perfectly designed and crafted home organizational system only works if the installation process is just as seamless, ensuring a successful job and, more importantly, a satisfied client.

Whether an installer is doing a small amount of assembly, trimwork or drilling additional holes for shelving and mounting, the power tools in his toolbox are essential to interpreting the designer's blueprint and fulfilling the client's vision of a dream room.

Typically installers point to a few basic tools they never leave the shop without, including portable drills, routers, portable tables saws, circular and jig saws, air nailers, power planers, sanders, a Rotozip tool and portable bandsaws. A toolbox filled with these tools helps the installer get in and out of the jobsite quickly.

A few portable power tool examples are pictured at right: Bosch Impact Drill/Driver; DeWalt 8V Gyroscopic Screwdriver; Festool TI 15 Hybrid Impact Drill; Milwaukee Tool M12 Cordless Lithium-Ion System; Porter-Cable 20v Max Lithium Drill/Driver; Rockwell 16v Drill/Driver and Impact Driver; Senco Fusion F15 Angled Finish Nailer; and Stanley Black & Decker Gyro Rechargeable Screwdriver.



Look for installation articles and tips and power tool products and videos at WoodworkingNetwork.com/Closets

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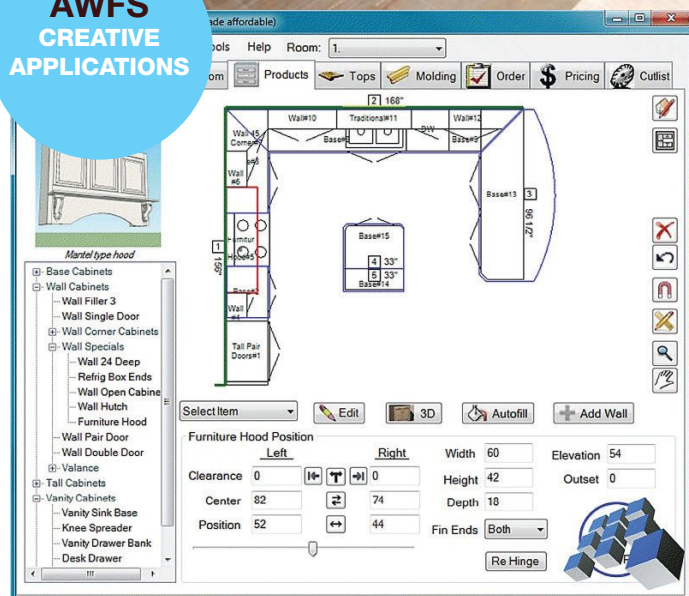
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Photos: Top, Cabinet Pro and Bottom left, Mosaik Software

**AWFS
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Design Software at AWFS 2013

The latest innovations in design software for cabinetry and home storage solutions will be on display at the trade show.

This month's 2013 AWFS Fair will kick off in Las Vegas, July 24-27. Woodworkers and designers from across the country will converge looking for the latest technology. For many attendees, design software will be a highly sought after item. Below are companies at the show offering design software. (The list is compiled from AWFS Exhibitors that selected design applications.)

Cabinet Pro Simply Powerful software is developed specifically for the truly custom cabinet shop. **Booth # 4859 cabinet-pro.com**

ArtCAM, developed by Delcam's CAD/CAM package ArtCAM offers creative CNC software for design and manufacturing of decorative products. **Booth #8808 ArtCAM.com**

ETemplate Systems now offers ECombo, a new process that combines EPhoto and ELaser, integrating both technologies. **Booth #7831 ETemplateSystem.com**

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Mozaik Software announces the release of new software designed for cabinet and casework makers. **Booth # 9612 Mozaik-Software.com**

Cabinet Vision Version 8 from **Vero Solutions** includes several new features and enhancements highlighted by the addition of automatic lighting. **Booth #4413 CabinetVision.com**

Vectric software products include Aspire for interactive 3D modeling and CNC machining. **Booth #7422 Vectric.com**

Additional companies featured on AWFS' design applications list include: **Eurosoft** (#8340); **SigmaTEK Systems** (#9606) and **HS Spindles** (#7434).

For the full AWFS 2013 coverage – news, products and videos, visit **WoodworkingNetwork.com/AWFS**



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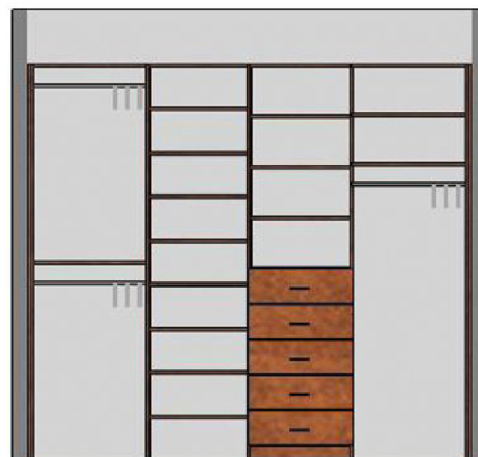
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Sliding Doors Squeeze In Style

Sliding doors are becoming more popular in the states as open space interior design takes hold and universal design becomes more than just a buzz word.

Long a fixture in Europe, sliding doors are now being developed that can do more than slide back and forth on a simple track. New hardware technology allows sliding doors to pivot, fold, slant and suspend. And coplaner hardware allows doors to flush fit when closed. Servo drive controllers can automate sliding door opening and closing functions and in some cases synchronize those motions. Silent and soft open and close hardware options are also offered by some sliding door manufacturers.

Another feature that designers find attractive about these



Photos: Top, Hafele America and bottom right, Indeco.

doors is that they can be mounted from the top making it unnecessary to reconfigure the floor to install the track guide.

Many designers are now spec'ing sliding doors for more than just the master bedroom closet. Whether closing off a dining room area from the living room or hiding pantry shelving, these sliding options are opening doors to more flexible design styles as well as offering a more modern, contemporary look.

As a matter of fact, a developing trend in kitchen cabinetry is the use of sliding doors for cabinets with younger home owners opting for this design element. Add the fact that some companies offer sliding door customization and you can see why these products are beginning to take off in America.



Salice coplaner sliding doors Photos: Above Salice, Right: Interzum

For instance Richelieu Hardware introduced a new concealed top sliding door system to its sliding door line with track mounting on the ceiling and wall front and with single or dual door panels. And Sugatsune has two new standard sliding door systems for light, medium and heavy applications.

Also, the beauty of a sliding door is that it can make a smaller space appear larger, much like mirrors but they also offer hidden storage options and can work as room dividers, which is appealing for homeowners dwelling in tight, metro lofts or condos.

The growing recognition and popularity of sliding doors has also been highlighted at both domestic and international design trade shows.

At the 2011 Cabinets & Closets Expo in Austin, TX, Indeco, a sliding door manufacturer, won the Association of Closet & Storage Professionals (ACSP) award for innovation. Indeco sliding door systems come in a variety of aluminum frames and colors, giving the user the ability to offer custom doors.

NEW DESIGNS, HARDWARE INNOVATIONS

At the 2013 Kitchen & Bath Show (KBIS), held in New Orleans in April, sliding door features were shown to highlight universal design as a growing part of interior design. With an aging population, designers are finding it necessary to offer solutions that



are not only beautiful but have ease-of-use, especially for someone with limited mobility. Also, the soft-close and open features may well be appealing to someone suffering from arthritis relieving them of the necessity of gripping door handles or knobs.

Following KBIS was Interzum 2013, held in Cologne, Germany in May. At this show many sliding door manufacturers were showcasing some of their latest developments to the international crowd.

Hafele America featured several different sliding door systems for a wide range of applications including a sideways tambour door, which would allow older users ease of access to the interior cabinet.

Hettich, with its slogan "Slide it. Love it," showcased its new sliding door systems for flush full length fronts and cabinetry as well as its system that combines open and closed sections in furniture. Soft close options were also available.

Salice introduced a complete line of sliding door systems manufactured in Italy. Although the main focus is on coplanar sliding movements, additional vertical and horizontal systems are available, all compatible with multiple door solutions.

Find out more about the online design tool options closet companies are launching at WoodworkingNetwork.com/Closets





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