

WOOD & PANEL USA[®]

covering american wood & panel industry

Sep-Oct 2017



WMS
2017
Special Edition

COVER STORY

Canadian Wood Industry

FOCUS

AWFS

Available on:



MARKET INSIGHT

fastenlink

AWFS ANECDOTE



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GROUP

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Dear Readers,

When it comes to latest woodworking technologies, Canada is definitely not lagging behind. With Woodworking Machinery & Supply (WMS) Conference and Expo in a few days, Canada is all set to witness the best of woodworking technologies and trending products between November 2 and November 4 at the International Center, Toronto. Our cover story of this issue is a low down on the Canadian wood industry.

We had a wonderful time at the AWFS. We have narrated our AWFS journey in the focus of this issue. In this regard, we must thank IMA Schelling and Cefla for giving us time and sharing with us their experiences at the show.

We are all gearing up for Canada this time. Wish you all the luck for the show.

Until next time,

Apratim Ghoshal
Editor-in-Chief

Canada:

Using Resources at its Best

In a recent release, Forest Products Association of Canada (FPAC) has expressed its support for the Comprehensive Economic and Trade Agreement (CETA) between Canada and the European Union for commencing its provisional application. This agreement will immediately result in the elimination of quotas and tariffs of up to 10% on Canadian exports of wood-based panels and other wood products to the European Union.

“We welcome the provisional application of the agreement, as a start to freer trade within the area,” CEO of FPAC, Derek Nighbor. “The prosperity of the forest products industry relies on strong exports, which CETA will help support.”

Last year the Canadian forest sector exported more than \$1 billion of wood, pulp and paper products to the EU member states. This is 3% of total exports of Canadian forest products making Europe the 4th largest international market for the sector. The largest importers of Canadian forest products in Europe are the United Kingdom followed by Germany, Italy, the Netherlands and Belgium.

FPAC looks forward to the benefits of having a progressive trade agreement with the European Union, including the

Bilateral Dialogue on Forest Products that will help prevent non-tariff barriers, which will meet within the first year of the entry into force of CETA, and thereafter at the request of either Party or of the CETA Joint Committee.

“The sector is working hard to diversify its markets beyond the United States and we encourage the government to continue with its efforts to extend freer trade. Our industry has had consistent growth and exports with our Atlantic partners and we look forward to strengthening this relationship via the CETA,” says Nighbor.

FPAC also urges speedy full implementation by governments of this landmark deal.

Trade Shows and Technology display*

When it comes to latest woodworking technologies, Canada is definitely not lagging behind. With Woodworking Machinery & Supply (WMS) Conference and Expo in a few days, Canada is all set to witness the best of woodworking technologies and trending products between November 2 and November 4 at the International Center, Toronto.

Some of wood manufacturings' best and brightest will be present at the Conference at WMS 2017, running during the first two days the national event for Canada's woodworking industry. Nearly a dozen top managers will share lessons drawn from real-world experience operating a woodworking business - including capital investment strategies, workforce development, and Lean management.

Practical presentations on social media marketing and tips for amping up profitability are also on the conference docket.

The latest count shows 266 exhibiting woodworking suppliers listed, significantly ahead of the last edition of the 2015 edition of the Woodworking Machinery & Supply Expo. The show will again be staged in Halls 1 & 2 at the International Centre, in Mississauga, minutes from the Toronto International Airport.

"Registration is running ahead of the 2015 pace by 25 percent," says Harry Urban, WMS Show Manager. Earlier this year, Urban returned to WMS show operations at Woodworking Network, which has operated the event since acquiring it from Reed Expositions in 2006, in a deal led by Urban.

The show is truly national in its scale and scope, Urban notes. "We have registrants from all provinces and 18 foreign countries." Urban strongly advises those planning to attend to register advance online, to avoid waiting times for badges when they arrive.



The education component of the show also carries the most extensive WMS Conference so far - four tracks spread over two full days - devised for the biennial event. As well, a plant tour of ProPly Custom Plywood is scheduled for November 2 as part of that day's conference tracks. A first-ever pre-show conference finishing program on Finishing & Surface Preparation is being presented by Taurus Craco on November 1.

Also new this year are Luncheon Keynotes on November 2 and November 3, with industry luminaries Sylvain Garneau, CEO of business furniture giant Groupe Lacasse, and Scott Hodson, president of Superior Cabinets, delivering their business management observations. Garneau's presentation is sponsored by exhibitor ACIMAL, the Italian Machinery trade group that operates Italy's large national show, XYLEXPO 2018. Exhibitors will be generating most of the excitement on the show floor, with the latest technology and supplies answering the demands of business and consumer customers in cabinetry and furniture production.





Wood Construction:

Wood construction has been another area of major growth in Canada. The Canadian Wood Council (CWC) applauds the commitment of Natural Resources Canada to position their country as a leader in the global low-carbon economy; helping Canada reach its climate change targets for 2030 under the Paris Agreement. The Green Construction Through Wood (GCWood) Program, will link scientific advances and data with technical expertise to showcase the application and sustainability of innovative mass timber structural building solutions that are 10 storeys or more.





“Our industry is encouraged to see Canada’s Minister of Natural Resources recognize wood construction as a solution to achieving our country’s commitment to reducing the overall carbon footprint of our built environment,” explains Etienne Lalonde, Vice President Market Development, CWC.

The previous Expression of Interest for tall wood buildings resulted in the successful completion of the world’s tallest hybrid wood building, Brock Commons Tallwood House, an 18-storey student residence at the University of British Columbia and a 13 storey residential complex (Origine) in Quebec City. Building upon this success, GCWood will provide funding to assist Canadian developers, builders, designers and construction experts to recognize the potential for tall wood construction.

**Special thanks to Woodworking Network for WMS.*

Image Courtesy: cwc.ca & cwpa.ca



Check out our latest APPEARANCE



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AWFS:

Showcasing American
Excellence



With a 17% growth in attendance, AWFS fair 2017 recorded yet another successful edition. Held in every two years, the AWFS fair – organized by the Association of Woodworking & Furnishings Suppliers (AWFS) – is one of the most important woodworking fairs for the American market. From July 19 to 22, exhibitors and visitors from around the globe gathered together at the Las Vegas Convention Centre, making the AWFS Fair 2017 a very positive affair for the woodworking industry.

According to Archie Thompson, national sales manager for Spectrum Adhesives and AWFS president, “This was the largest show our Association has hosted since 2007, in terms of both exhibit space and attendance. In addition, our Association membership has continued to expand with 461 current members, the highest total that I can remember since I have been an AWFS volunteer since 2000. Having a successful show will enable to do more for our members, whether it be offering new programs or increasing our commitment toward industry education and workforce development or expanding our advocacy efforts on our industry’s behalf. In the end, a strong show is



really a benefit to the entire industry and that is a great thing.”

The AWFS Fair 2017 hosted 12,306 registered attendees and 18,457 total participants, including 683 exhibiting companies that occupied the entirety of the Central hall. Industry professionals from 67 nations around the world visited this year’s show.

One of the new show features introduced at the latest edition was the “Make & Take” booth, a fun activity where attendees could make a tea light candle holder. This project was made possible by generous donations from AWFS Fair exhibitors, including Sierra Forest Products who donated all of the solid stock material; Woodworker’s Emporium of Las Vegas who provided the drill presses on loan for the event; Laguna Tools who provided the laser machine on loan; Bessey Tools provided clamps, and OneSource (a 3M distributor) provided safety and finishing supplies.

Attendees enjoyed using the Laguna laser machine to customize their candle holders. Booth staff helped attendees program the desired word or phrase into the software and within minutes it was complete.

The Make & Take was hosted by the Society of Wood Manufacturing (SWM), a new AWFS chapter with the purpose to support woodworking education programs and connect schools with industry partners. SWM founding President Saúl Martín said, “The Make



& Take booth was a great opportunity for us to connect with AWFS Fair attendees and share our mission. We also raised some money through attendee donations which will be used to support students competing in SkillsUSA woodworking contests.”

Industry 4.0 was the main focus at AWFS Fair 2017 where a vast array of products and technologies was put on display. The event was bigger and better than ever this year! With more first-time exhibitors, the show stage witnessed a lot of innovations and more networking. The new showcase highlighting Industry 4.0 saw a host of technologies that will heavily influence the future of manufacturing process, including: Artificial Intelligence, Augmented and Virtual Reality, Robotics, 3D Printing, Cloud Computing, Internet of Things (IoT), and Internet of Services (IoS).

According to Peter Tuenker, Managing Director, IMA Schelling, the American woodworking market is moving in exactly the same direction as the European markets moved 10-15 years ago, in regard to automation. He further remarked, “We are seeing a big uptake of this Batch Size 1 technology and automated systems. We were lucky enough to already have placed quite a few of these systems here in US and also in Canada. So we are seeing all of these developments from Europe coming now to America as well.”

Twelve companies were awarded with Visionary New Product Award by AWFS for product innovation and leadership in the woodworking industry. The Visionary New Product Awards recognize creativity and innovation as well as leadership in green/environmental product development. Entries are evaluated on quality, production impact, practicality, innovation and user-friendliness. This year’s awards, chosen by a panel of hand-selected judges representing various areas of the industry, including professional end-users, woodworkers and company owners, were announced at the 2017 AWFS Fair.



A complete list of all Visionary winners is included below:

- **Product Innovation Award in Industry 4.0 Software**
Osync Machine Analytics v2.0[®]/C. R. Onsrud
- **Product Innovation Award in Industry 4.0 Technology**
SCM Lean Robot Cell/SCM
- **Productivity Award in Machinery Over \$50,000**
Dürr Ready2spray PAINT ROBOT/Enhancement Technologies
- **Award for Productivity and Product Innovation in Power Tools**
Shaper Origin/Shaper Tools, Inc.
- **Product Innovation Award in Power Tools**
Apollo TrueHVLP™ Precision-6 Turbo Paint/Apollo Sprayers International, Inc.
- **Product Innovation Award in Components**
Rev-A-Shelf LLC/Tresco Lighting Snap Panel Lighting/Rev-A-Shelf LLC
- **Productivity Award in Hardware**
Lockdowel “Snap on” Drawer Slides/LOCKDOWEL
- **Product Innovation Award in General Product Category**
Oneida Air Systems’ Universal Dust-Free Router Hood/Oneida Air Systems
- **Product Innovation Award in Tooling**
Leitz BrillianceCut Circular Saw Blade/Leitz Tooling Systems
- **Product Innovation Award in Software**
Virtual Vision 3D/Next Wave Automation
- **Product Innovation Award in Raw Materials**
AKF with Rombex Technology/Uneeda
- **Productivity Award in Machinery under \$50,000**
LT-2D3D-C Laser Templator/Laser Products Industries

Trade show chair and board member, Rob Howell who is also Sales Manager at SCM, expressed, “Going into this event, the numbers indicated that we were going to have a strong show and the AWFS Board couldn’t be happier with the results. Just to put it

in perspective as to how far our industry and this show has bounced back since the Great Recession, we sold more booth space during our four show days (for 2019) than we did over the course of 10 months following our 2009 Fair. That is a testament to the perseverance of the people that make up this industry and something we can all be proud of.”

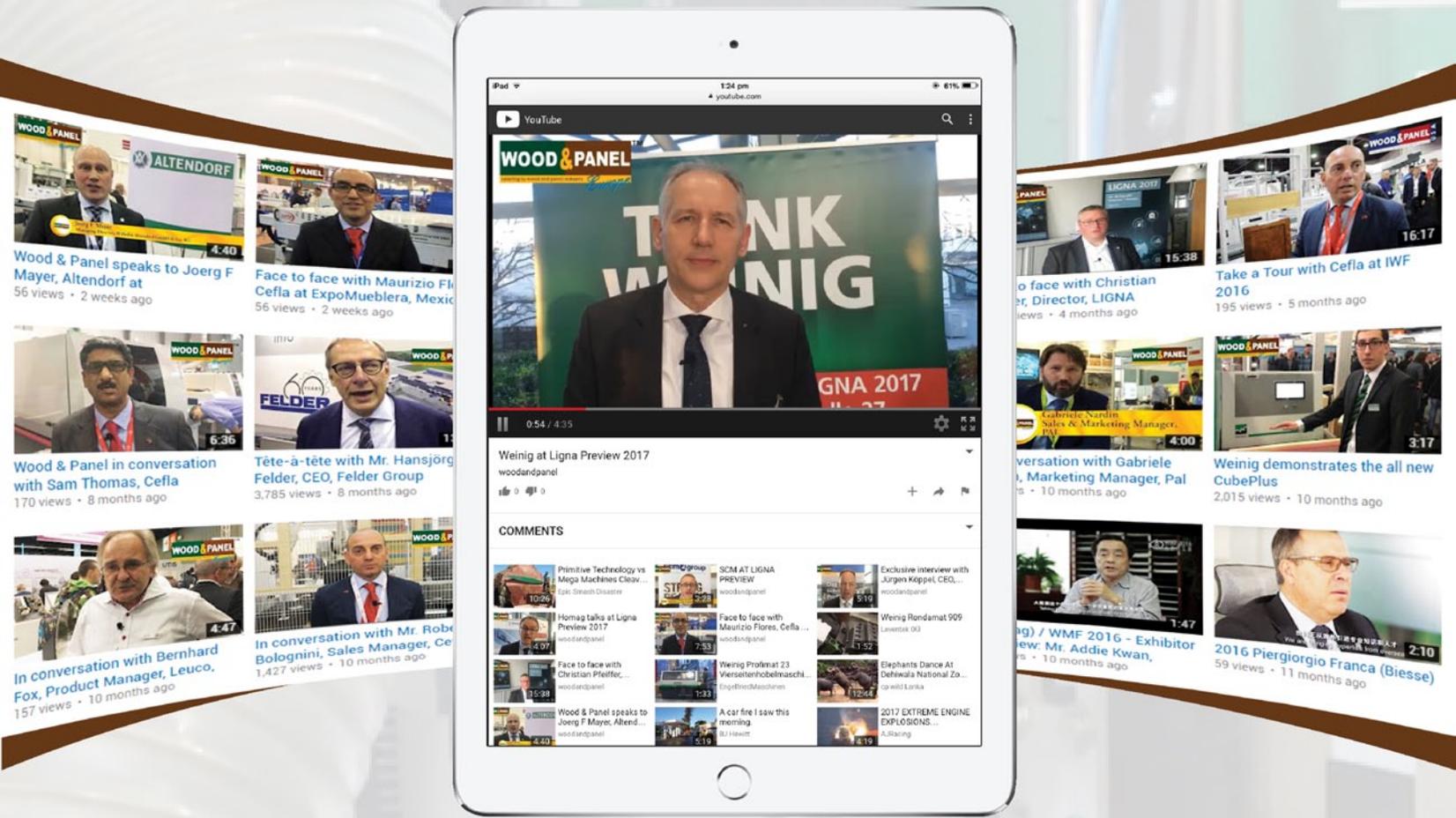


By the end of the show, AWFS had already received 2019 booth commitments from nearly 150 exhibitors, which represented a record amount of onsite exhibitor booth sales for the second consecutive show in its history. Taking these figures into consideration, it can be safely said that AWFS 2017 delivered positive results!

During AWFS, Wood & Panel USA had the privilege to be with the Cefla team and know more on their recent market, latest technologies and lot more. Watch this video for the full interview.

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FASTENLINK

Mr. Jamie Mindrup, Vice President for Operations, Fastenlink bares his heart on clamping technology, LIGNA, AWFS and lot more. Read on.

WPE: What were the products that you have showcased at AWFS and how has been the feedback?

Jamie Mindrup: Fastenlink is a breakthrough fastener which consists of a single component, a 8mm x 30mm orange dowel. With this we have only 3 products we sell, the Fastenlink link, the cutting tool to produce the ramped pocket and an adhesive. We have been to 2 AWFS shows in 2015 and 2017. We have also introduced Fastenlink in Australia and Germany at the 2016 AWISA fair and the 2017 Ligna Fair respectively. We also exhibited at the 2016 IWF where we competed for the prestigious Challengers award of which we won.

The feedback has always been tremendous, we often hear comments like amazingly simply, what a time saver, why did I not think of this.



WPE: Joining and clamping are the primary focus of FastenLink. In line with the process of clamping technology, what can we see in 2018?

JM: In 2018 we are going to continue to promote Fastenlink through trade shows and one on one company interaction. Fastenlink is a product that will affect the culture of any company that produces with it in a positive way. With that we work very closely with our customers to help develop the Fastenlink system within their manufacturing processes. At Fastenlink we work with our customers to help bring an understanding of the products limitless potential. We like to say that we do not just provide fish, we help develop fishermen.

WPE: Talking about Clamp system, if you can tell us what makes your product so extraordinary?

JM: A clamping system is any device used to hold two or more pieces together until a bonding agent can cure. Typical devices are pipe clamps, case clamps, screws or nails, etc. Pipe clamps or case clamps are cumbersome and time consuming, nails and screws leave holes and require additional tools and possible further process.

Fastenlink achieves all the above fasteners do but with less time and when the product is completed the fasteners are hidden. Now there are other fasteners on the market that are hidden or do not require a "clamp". Fastenlink is unique for many reasons, one reason that stands out is than in the magic of the marrying together of the ramped pocket and the shoulder of the Fastenlink link. When the link is seated into the ramped pocket there is continuous clamping, a tension is always being applied to the joint. This allow for a forever tight joint. This joint remains tight with or without the use of an adhesive in the ramped pocket. This brings so much flexibility to the products produced. Opens up the ability to flat pack goods, for goods to be assembled in the factory or at their final destination. The possibilities are endless.

Another extraordinary feature of Fastenlink is that it is produced on standard machinery, no expensive retro fitting or costly equipment needed to increase throughput and profits.

WPE: “For the consumer, the beauty of FastenLink link is that anybody can assemble the end products without any tools and without that dreaded bag full of hundreds of fasteners. You simply line up the pre-inserted Fasten Link dowels into the holes and snap it together” - How user friendly and flexible your products are?

JM: Fastenlink is limitless, the only restrictions upon it are our limited ability to expand our potential. Method of assemble is key to ease of assemble. For example, we reengineered a 60” office desk that is produced in a facility in America. We had two strict rules we set upon ourselves, only Fastenlink could be used for the assembly and we had to produce an exact model being produced with over 100 different fasteners. The assembly time of the model was 40 plus minutes for 2 workers, our completed model took 7 minutes to complete. What a time savings and this desk was so easy to assemble that with simple direction anyone from a new hire to the company president could assemble it to completion.

WPE: Are you taking part at Magna Expomueblera? If yes what would be your plan and what will be the new products on showcase at the fair?

JM: Our plan is to exhibit at Magna Expomueblera. We will continue to introduce Fastenlink and develop relationships with companies interested in improving their throughput and innovation.

WPE: What about your presence in Europe? How was LIGNA?

JM: Ligna was a great show, so large hard to fully grasp. Our presence in Europe is going as would expect. We have many firms testing Fastenlink and evaluating best practices for implementation. Like I said earlier Fastenlink is a culture change in most operations, it also requires procedural changes as well and we encourage that companies do this thoughtfully in order to maximize the benefits of Fastenlink.

We are continuing the development of distribution throughout Europe, country by country. This process is a bit longer than we would like however the partnerships we are building are long term and like-minded.

WPE: What is your marketing strategy for 2018?

JM: To continue our presence at trade fairs and events, and continue to build relationships and partner with our customers. We feel that our best market strategy is by building strong customers and investing into them as needed.

In conversation with
Peter Tuenker, MD,
IMA Schelling

This AWFS, we had the chance to speak to the managing director of IMA Schelling, Peter Tuenker who updated us on the current market of the group, the latest products and also their presence in Canada. Read on.

WPU: Industry 4.0 is the main focus in AWFS this year, where do you place yourself when it comes to industry 4.0?

Peter Tuenker: We are definitely on the front end of this whole movement of industry 4.0. IMA Schelling has invested for the last 15 years heavily in this field, we are the providers of large scale of solutions fully automated solution up and running installs all over the world- Western Europe, South America and also in North America, so, we can definitely say that we have been always with this development.



WPU: LIGNA was a very successful show for all of the European companies and since you are the Big Boss for the American market, how is the American market faring so far?

PT: We are actually moving in the exact direction that the European market moved ten to fifteen years ago, we are seeing a big uptake of the batch size 1 technology, automated system, we are lucky enough to already have placed quite a few of these systems here in the US and already in Canada. So, we are watching all of these developments from Europe coming now to North America as well.

WPU: Can you name couple of few machines you are exhibiting here?

PT: Actually we have our laser technology for the first time here in Las Vegas. We have introduced the IMULUX Laser- in Atlanta last year but we are also showing this technology at Las Vegas this year. This is a technology again laser edgebanding that is becoming more important in North America and we are seeing a big spike of interest in laser edgebanding technology. We are promoting this technology for a long time, we have invented the laser edgebanding process and now we are taking it to the North American customer as well. This machine, we are showing here, will go to one of our customers in Southern California, after the trade show, who will be the first owner of laser edgebander in Southern California. He will supply the market for the first time with laser edgebanding material made in Southern California.

WPU: You are representing the North American market, does it include the Canadian market?

PT: Yes, we do have an Canadian office in Mississauga, we actually work very closely together with our Canadian counterparts with total almost 60 persons in North America working for our IMA Schelling Group again about 45 to 50 of them in the US and 10-15 little bit depending on the who works in which side of the border anytime in Canada. So, we have very good team of people in the USA and also in Canada.

WPU: Can I expect to see you at Canadian show in November?

PT: Yes, absolutely we are signed up for the show in Toronto. We have always been at the show and this year we will also be there for sure.

WPU: My last question would be what is your plan for the rest of the year and of course 2018?

PT: Business has been very good for us, we are very happy to report that we are looking at our best year so far, in this new configuration as the IMA Schelling group is one company. We are very busy and we definitely know that we will be very busy for the long time. End of this year is fully packed, specially realizing all these projects that we have on the books already and we need to make sure that we get these machines, these systems up and running for our customers.

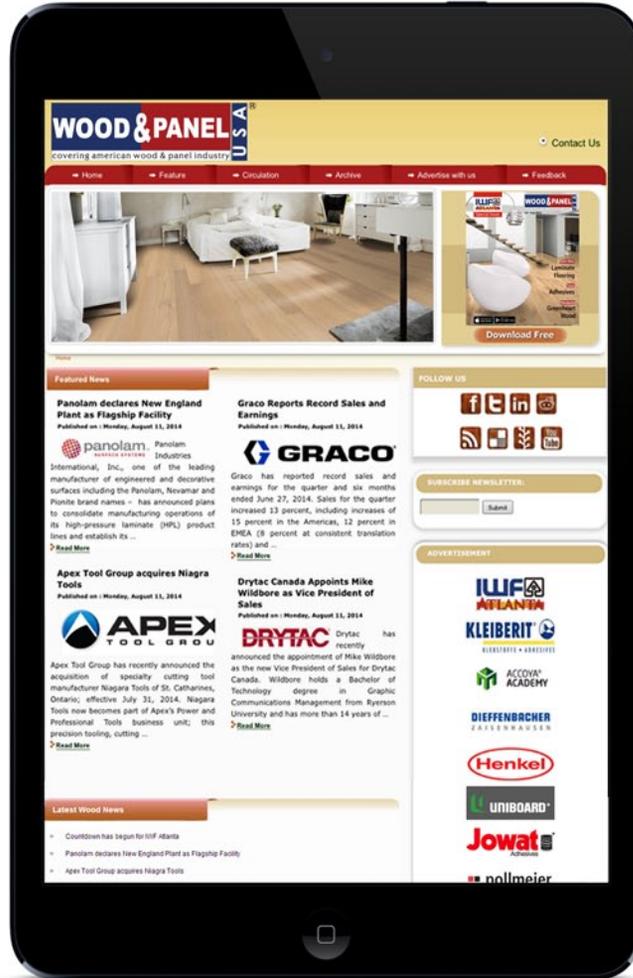
You can now watch the video here and also from our youtube channel.



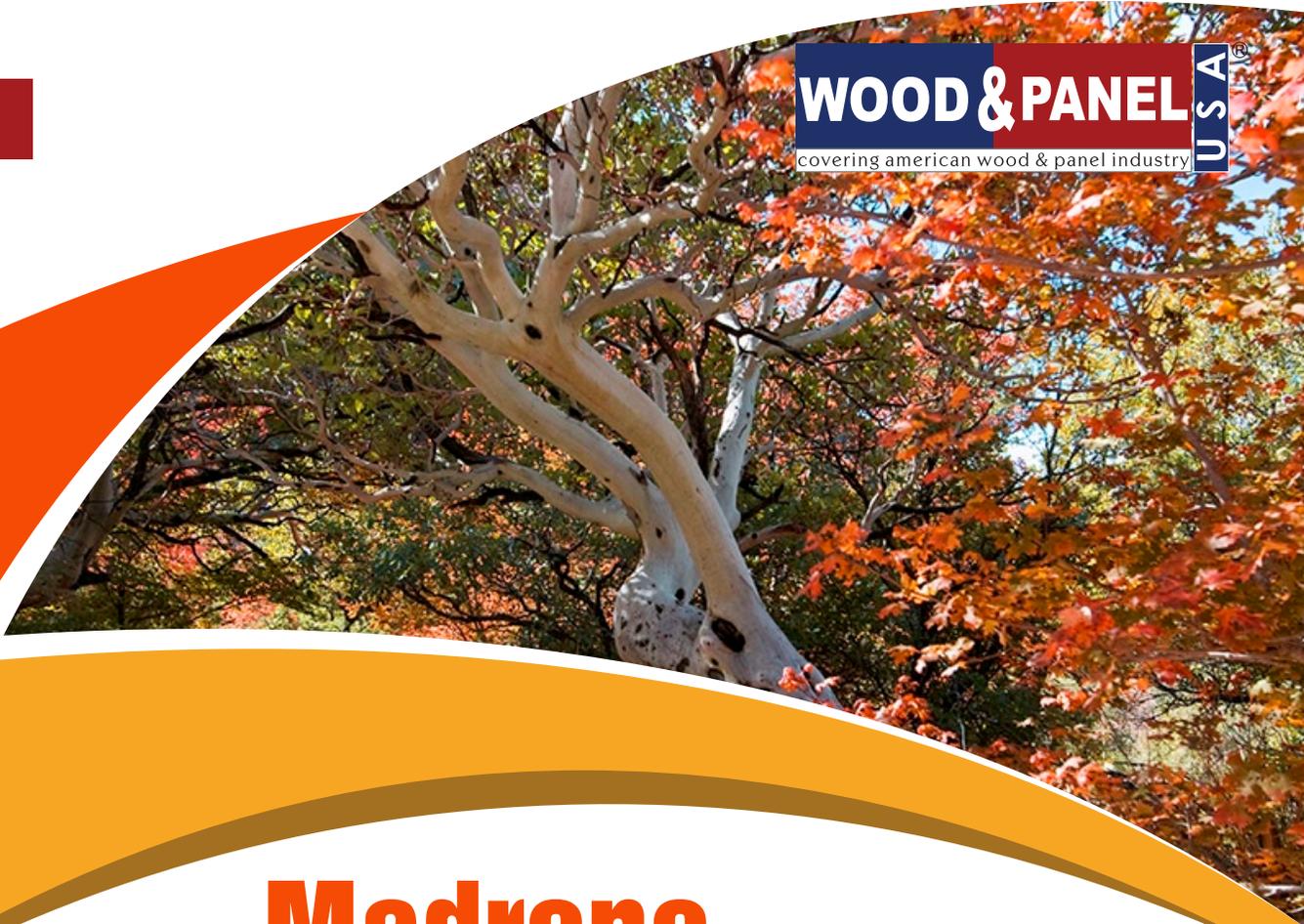
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Madrone

Burl and Beautiful

Madrone is a dense, heavy hardwood, most known for its burl veneer. Scientifically known as *Arbutus menziesii*, the evergreen tree has a distinctive appearance with a rich orange-red bark. Found in the Western coast of North America, it grows from Central California up to British Columbia in Canada.

Typically, a Madrone tree can grow to a height of about 30 to 85 feet, with some older trees even reaching up to 100 feet. The species has a tendency to grow towards the light, so often the trunks are curved as a result. The trunk diameter can range from anywhere between 2 to 8 feet.

Madrone is more popularly known as the Pacific Madrone. Sometimes, woodworkers also refer to it as Madrona or Madrono. In Canada, the wood is called as Arbutus.

Properties

Madrone has reddish brown heartwood, sometimes with dark red patches scattered throughout. The sapwood is creamy pink in appearance. The grain tends to be straight, with a very fine and even texture. In some cases, the wood may have an irregular pattern of growth rings which results in an attractive pattern.

Madrone is rated as non-durable to perishable with regard to decay resistance. Thus, it is limited to interior uses. But the wood is heavy with a high density. It also has a high moisture content.

The wood is easy to work with both hand and machine tools. The hardness and density of Madrone can dull cutting edges, so sharp tools and carbide-tipped blades are advisable. Feed rates on cutters should be slow and steady to avoid burning and tearout.

Nails and screws will require pre-drilling. Madrone sands very well and takes quite a good finish. It glues and bonds well. Drying is a difficult process and the wood has tendency to warp. Steaming is suggested to avoid this.



Uses

Because of its fine texture and frequent burls, Madrone is one of the top choices for wood turning. The stability of the wood also makes it a prime choice for making furniture and cabinetry. Madrone burl is highly prized as a decorative veneer.

The high density of the wood and its special appearance makes it a very popular choice for hardwood flooring. It comes in a stunning variety of colors like mocha brown, burgundy reds, salmon pinks, and warm cream tones. The wood looks good as it polishes to a great finish.

Madrone is also used in carving. Turned objects like bowls are very common. It is also used in decorative items like picture frames or lamps. Sliced as a veneer, it can be used as inlays and for marquetry.



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Element Designs introduced diverse options of new design

Element Designs recently introduced several new cabinet and sliding door options at AWFS 2017. After extensively researching trends in Europe and getting valuable market feedback from their customer base and design community in North America, Element Designs has introduced a new aluminum finish as well as several new insert options.

Element Designs' new black matte finish is very much in line with the industry's shift towards matte finishes and darker, more dramatic interiors. The finish is available on all of their aluminum frame products including their popular aluminum frame cabinet and sliding doors, as well as aluminum frame base systems and °eluma LED products.

Several new insert options reflect an interest in unique materials in kitchen, residential and commercial interiors. A new reflective bronze insert is a semi-transparent glass with a mirror finish



which adds depth to casework designs. In addition, Element Designs has introduced a new leather door insert category to their product offering. dECOLeather by Formica Group is a recycled leather veneer which adds interest and luxurious accents to cabinet doors, sliding doors and fixed panel applications.

New decorative hardware options are also being added to their product offering which accentuate modern, clean lines in cabinetry. The new hardware, both recessed pulls and minimal finger pulls, is available in finishes to match all of their door finishes including stainless, onyx matte black, arctic gold and chrome.

New drawer slides from GRASS America

Grass America is proud to introduce the new Maxcess, full access, soft-close undermount drawer slide series.



Maxcess is an economical concealed drawer slide that offers a high degree of convenience and satisfaction. The Maxcess drawer system is an undermount drawer to give one a full view of his/her finely crafted drawers and features the smallest extension loss in the industry. The Maxcess easily fits conventional drawer construction and offers an oil dampener for a continuous smooth easy close.

Maxcess features an ample load capacity of 75 pounds that meets and exceeds ANSI/BHMA grade 1 testing standards. The Maxcess drawer slide is designed for both frameless and face frame cabinetry

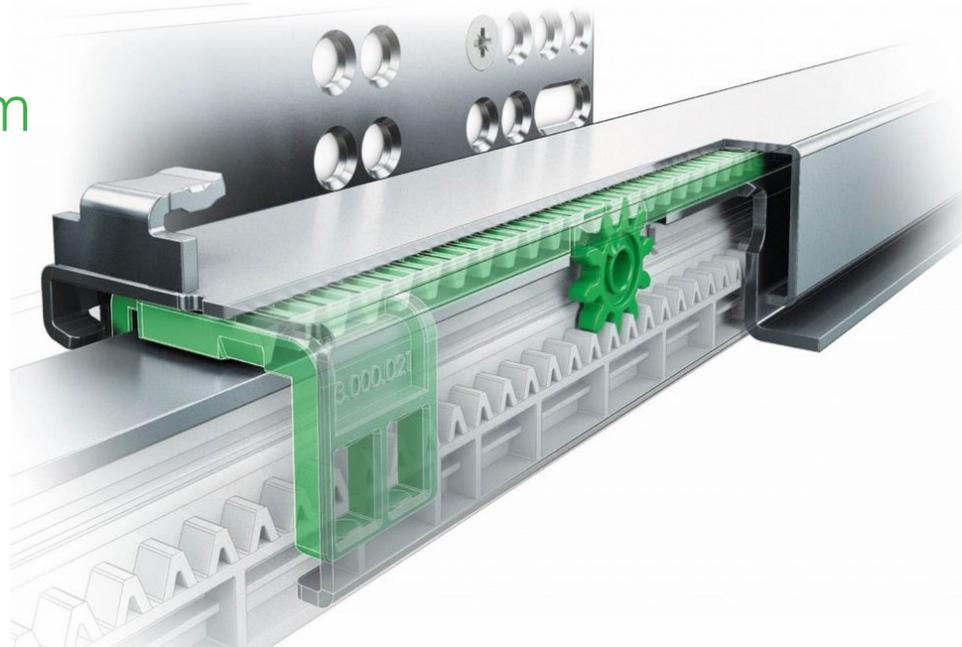
and accommodates conventional drawer construction with material thickness ranging from 12mm (1/2") to 16mm (5/8"). Drawer space can now be maximized as the Maxcess requires minimal top and bottom clearances, utilizing the fit of the drawer within the available frame opening. The proven Grass front locking device connects the drawer to the slide securely.

Dynapro Slide System

Dynapro, the new undermount slide system from Grass, has taken the market by storm. Touted as the best concealed undermount slide in the market, Dynapro offers a high load carrying capacity, 3 dimensional adjustment option for perfect alignment and a synchronized movement that allows the drawers to operate without a sound.

It is available for 5/8" and 3/4" drawer material, longer lengths and heavy duty carrying capacity. Dynapro offers a low pull force and a soft-close action provides a smooth gentle stop.

Dynapro, the new generation of undermount slides for wooden drawers, combines intelligence, function, and comfort.



Wood Coating Portfolio from Axalta at AWFS

Axalta showcased the newest additions to its wood coatings portfolio, including its reformulated Zenith[®] waterborne finish.

The Zenith waterborne line of products incorporate revolutionary coatings technology to match the durability and performance of traditional solvent-based products, but with low odor, VOC-compliant solutions.

The company will also introduce Ultraguard[™] Low Formaldehyde Conversion Varnish, which contains 75 percent less formaldehyde than traditional formulations, yet performs in durability, clarity, and appearance like conventional varnishes.





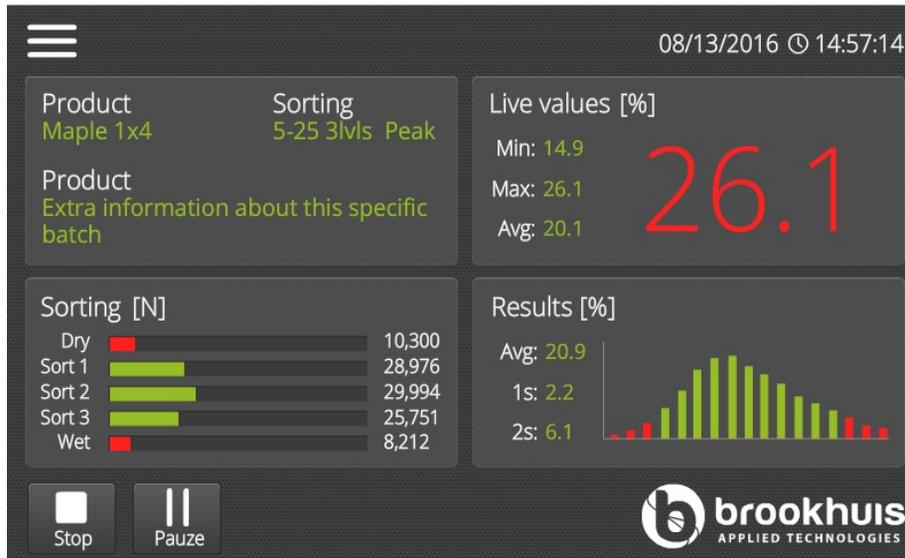
FMI-5 inline moisture meter system from Brookhuis

The FMI-5 inline moisture meter system is a 100% new development with the latest microprocessor and sensor technology. It is the successor of the well-known Brookhuis FMI-3 and FMI-4 inline moisture meter systems.

An FMI-5 system consists of an operating panel, 1 or more moisture sensors with a prefabricated sensor cable and a reference board. It can be operated manually or fully automatic by the machine line. Via remote access a fast service is available.

The operating unit is available in 4 different models and with 8 different sensor models the FMI-5 ensures that it can be installed in practically every longitudinal or transversal operating machine line.

The FMI-5 system categories wood into different moisture levels, gives information to reject wood outside the set moisture levels, mark boards, measures real-time to get the boards moisture profile for optimizing and scanner lines to cut out or mark wet spots. This makes the FMI-5 a very



versatile system suitable in all known applications.

The new FMI-5 sensors measure 500 times per second to detect the smallest wet spots in the fastest production and sorting applications. Each sensor stores calibration data making the system a perfect fit in quality control systems or according to

international Standards.

The new transversal sensors are more compact compared to the previous models. In case of a replacement of an older Brookhuis transversal sensor, a mounting kit is available so integration can be realized within minutes. Maximum 10 transversal sensors can be connected to a FMI-5 operating unit to get a maximum of 20 measuring fields of 250mm resulting in 5,000mm effective moisture content board information.

250 boards/minute in transversal mode or 1,200 meter/minute in longitudinal mode makes the system fast enough for all existing machine lines, and with the FMI Reporting software all measuring results can be stored on a computer, reports can be printed or data can be transferred into a customer's database. Thanks to the new touch screen with graphical user interface the FMI-5 system is very simple and intuitive to handle. In manual mode, the operator first select either batch, product and sorting mode and presses start for measurement. All crucial information is shown in the display and when more in-depth information is needed, the operator just presses the screen to see in real time, the sorting results, the moisture distribution of the batch, the batch information or the current measurement.

A person in a grey long-sleeved shirt is holding a long, narrow, black inspection light. The light has a silver strip in the center and a green 'FESTOOL' logo near the bottom. The person is looking at the light, which is held vertically. The background is a blurred workshop or factory floor.

New STL 450 Inspection Light from Festool

The new STL 450 inspection light allows one to see even the most minor flaw before they can.

One can never miss another flaw or defect with STL 450 inspection light. This purpose-built inspection light illuminates the surface to clearly show flaws and defects so one can perfect his/her work. With an impact-resistant, non-marring full body protection, there is little risk of surface damage further ensuring great results. With 1,500 lumen and a color temperature of 5,000K, the surface control light brings great brightness and color to any surface, whether sanding a wall or finishing a tabletop, the surface control light provides perfect visibility for the best results.

Strengths and Benefits:

- IP 55 rating against water and dust intrusion
- Perfect visibility of surface defects and flaws
- Non-marring shell
- Handheld or hands-free usage option
- 1500 Lumens at 5000 K for high-quality lighting
- Reduce callbacks and increase customer satisfaction

Features:

- This low-profile design allows LED to be cast closely to surfaces revealing any defects or flaws
- 1500 Lumens with 5000 K color temperature provides optimal light output for detailed surface inspection.
- Optional adapter available to mount to Tripod ST DUO 200 for hands-free usage and infinite angle setting.



AraucoPly Sanded Panels from Arauco



AraucoPly[®] Sanded Panels are finished with 150-grit sandpaper on the face and 120-grit sandpaper on the back, facilitating easy finishing with excellent results. All grade-stamped AraucoPly[®] Sanded Panels are manufactured in accordance with the US PS 1-09 product standard, and all ACX and BCX products are PS1-09 underlayment compliant and are edge stamped as such by TECO.

These specific panels are laid up on a composed core using exterior PF resin and 100% plantation grown Radiata pine for consistent quality and performance. Their face veneers are peeled from pruned logs – making AraucoPly sanded panels one of the highest-graded AC products on the market.

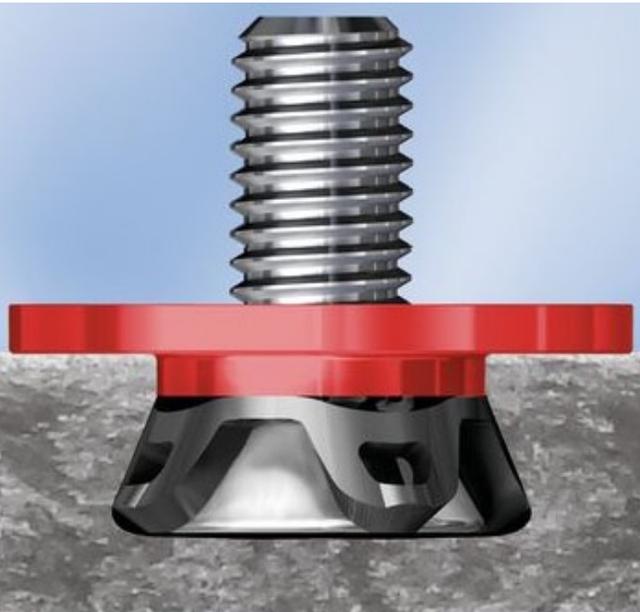
Features:

- 100% radiata pine.
- Stable composed core with minimum voids.
- High quality solid face.
- Ideal for interior and exterior applications
- Pre-sanded and ready to finish
- Allows a variety of finishes

Applications:

- Staircases.
- Table and counter tops.
- Base panel for high-pressure lamination.
- General industrial applications.
- Cabinets and furniture.
- Underlayment.
- General DIY projects.

DP Form Cutters from LEUCO



The diamond-tipped cutter is used for the production of undercut drill holes for the fischer[®] undercut anchor type FZP II- (T) M6 (fischer Zykon panel anchors). Normally, the facade materials to be processed are mineral based materials, high-pressure laminate (HPL) or fiber cement boards.

The cutting material DP stands for a very long edge life and thus for considerably lower costs per hole compared to conventional solid carbide cutters. A special tooth geometry reduces the friction coefficient and ensures the lowest possible heat generation.

A high-strength tool body guarantees high stiffness and excellent stability. The LEUCO topline design offers optimum cutting quality thanks to a special edge preparation.

Universal Dust-Free Router Hood from Oneida

New from Oneida Air! Fits almost any fixed-base and plunge routers, collecting waste at the source and eliminating post-project cleanup. Includes two lower chip covers for deep and shallow router bits. May be too large for smaller trim routers.

Benefits & Features:

- Vacuums while you work, eliminating downtime for cleanup
- Universal design fits nearly any portable router e.g. Black & Decker, Bosch, Craftsman, Dewalt, Hitachi, Makita, Milwaukee, Porter Cable, Rockwell, Ridgid, Ryobi, and more! See F.A.Q. for details
- Lessens wear on router bits by reducing material buildup
- 1.25" I.D. / 1.5" O.D. swiveling hose connection with quick-release lock
- Molded from clear, polycarbonate plastics, the same material used for safety glasses, for maximum visibility and durability



AKF material with Rombex technology

This revolutionary new material was designed to provide one with the best sanding results one has ever experienced from a coated abrasive. Its unique rhomboidal coated pattern allows for increased dust extraction while dispersing heat from friction more evenly and efficiently. AKF delivers a longer lifespan compared to conventional abrasives which translates into longer machining time and fewer line stops to replace worn materials. It is one of the most cost-effective and environmental friendly material available as it lasts longer and produces fewer scraps in the process.



Venjakob to showcase product portfolio at WMS





At this year's WMS, the German manufacturer of complete finishing lines, VENJAKOB, demonstrates its expertise and excellence in coating together with its US subsidiary NUTRO Inc. located in Strongsville/Ohio.

The main emphasis this time, is on the entry-level model in automatic coating, the VEN SPRAY SMART, and on a coating solution consisting of a spray robot and an overhead conveyor system.

Venjakob/Nutro provides innovative coating solutions for different kind of workpiece materials and geometries. Venjakob is also a specialist in exhaust air filter systems eliminating harmful organic substances and odours (VOC abatement).

The strength of the companies lies in complete system solutions like pre-treatment, painting, conveyor and handling equipment, drying and exhaust air filtering.

Intensive product developments generate a broad portfolio of standard and special machines for fully automatic surface finishing. The modular construction of the plants enables a retroactive expansion as well as an optimized adoption to changing production requirements.

Venjakob/Nutro offers more than just application solutions for highest demands of surface quality and coating performance. Highly qualified engineers create tailor made control concepts with customers. During the engineering process their engineers develop the highest throughput equipment while maximizing up time.

WMS visitors will have the chance to see the VEN SPRAY SMART in action and to inform themselves about all the other finishing solutions provided for various applications from batch size one to mass production requirements, as well as for applying different kinds of materials.

WMS | November 2-4, 2017 | Booth # 2619 | Toronto | Canada



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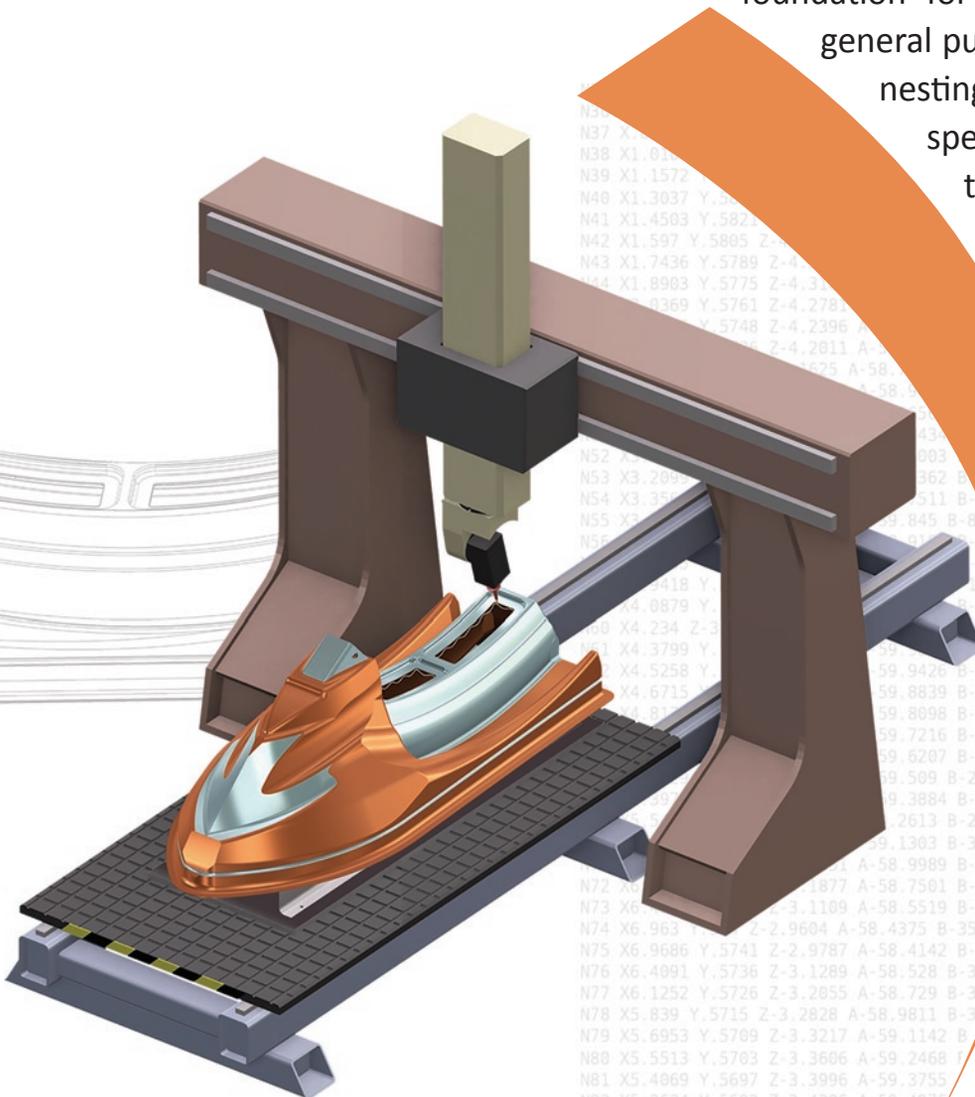
Mastercam releases Mastercam 2018 Router

CNC Software has announced the release of Mastercam 2018 Router. Mastercam 2018 Router brings a new suite of programming tools focused on delivering speed, automation, and efficiency for all machining jobs.

Mastercam Router gives one's shop the best possible foundation for fast and efficient routing. From general purpose methods, such as optimized nesting and block drilling, to highly specialized toolpaths like 5-axis trimming, Mastercam Router delivers a comprehensive routing package to fit one's needs. And, new to this release, Mastercam 2018 for SOLIDWORKS introduces support for Router.

Mastercam for SOLIDWORKS Router

Mastercam for SOLIDWORKS introduces support for Router, including Saw toolpaths, Block Drilling toolpaths, and drawing door and stair geometry. Automatic Toolpathing (ATP) is now available for Mastercam 2018 for SOLIDWORKS. ATP automates the



process of assigning toolpaths to geometry for recurrent parts using a machining strategy. Block Drill toolpaths take advantage of the capabilities of a drill block or gang tooling. Use the different drills on the drill block to automatically drill several holes at the same time, or mount different size drills in the block and have Mastercam for SOLIDWORKS drop the proper drill for each hole.

2D Machining

Mastercam Router delivers all the tools one needs for precise control over all aspects of 2D machining including Contouring, drilling, pocketing, and more. Mastercam also delivers a powerful way to automatically mill and drill solid models—Feature Based Machining. FBM evaluates a part's features and automatically designs an effective machining strategy.

3D Machining

Mastercam Router gives one a variety of techniques to rough machine all the parts. One can rough cut multiple surfaces, solid models, STL files, or any combination of them. Mastercam's suite of finishing tools lets one choose the best method for the results

anyone wants. And, Mastercam automates leftover material identification and removal, providing one with finer finishes.

Multiaxis

In Mastercam Router, one can have complete control over toolpath type, tool motion, and tool axis. In addition to general-purpose multiaxis machining, Mastercam also has specialized Add-Ons for multi-bladed parts (Mastercam Blade Expert) and cylinder head ports (Mastercam Port Expert).

Other Mastercam Router Features

- Complete tab control including Full Tabs and Partial Tabs.
- Mastercam's standard nesting delivers a fast, efficient, and easily identifiable way of nesting one's individual parts.
- Mastercam's advanced nesting gives a variety of additional tools, including TrueShape nesting and nesting in scrap material.
- Mastercam's engraving can give one the effect of classic hand-carved art using the CNC machine.
- Automatic Toolpathing links one to a variety of top design software.
- And much more.

Cefla Finishing brings Smart Factory Concept at AWFS



Cefla Finishing, a world-leading provider of finishing, decoration and digital printing solutions for the wood industry, brought its Smart Factory concepts to the AWFS Fair 2017 to showcase how hardware and software can interact at every step of the production process. In keeping with the show's mission, Cefla was intent on providing its customers with a new set of powerful and innovative tools to give them a lasting competitive edge in the years to come.

Industry 4.0 technologies allow companies to connect the machine-centered digital world and the people-focused real world. The four parts of Cefla's Smart Factory concept effectively bring both worlds together for maximum efficiency. Cefla North America General Manager, Massimo Di Russo says, "Cefla Finishing is already part of a future that combines the efficiency of mass production with the personalization of specific customer needs."

Our Smart Factory exhibit at AWFS is a must-see demonstration of the best ways to do anything better.”

The first element of Cefla’s Smart Factory was the cCloner, a tool that realistically simulates a process prior to starting a production line. By creating virtual models of machining steps and “cloning” real time processes in advance, it prevents inefficiencies and ensures that production requirements can be achieved without error. Empowered by such quick and realistic simulation, a woodshop can adjust parameters upfront, prevent potential bottlenecks, and maximize efficiency in product changeovers and in processing different batches.



The Smart Factory’s cTracker software also helps minimize downtime and boosts production efficiency. At power-up, cTracker displays a view of the line synoptic, enabling a supervisor to examine details of individual machines, as well as look into such factors as alarms and formulas, and make appropriate adjustments.

In addition, cLink, fills the gap between ERP and cTracker so that data retain their value over time and can be used to optimize future workflows.

The final element in Cefla Finishing’s cohesive Smart Factory was Smart Contract, an evolution made possible by the company’s worldwide presence and resources. Like an engine kept idling, Smart Contract lets Cefla service experts instantly accelerate to prevent a problem, provide a solution, or ensure improved performance, scaling up or back to match a customer’s most pressing needs at a given time.

Box On Demand presents the upgraded Compack EVO 2.5 CNC

Box On Demand showcased the upgraded Compack EVO 2.5 CNC on demand box making machine technology at the AWFS Fair. The Compack EVO delivers right-size boxes and corrugate protective shipping containers in batches or individually as part of any customer's manufacturing and packing process. These durable boxes can be made to virtually any size and configuration.



The CNC technology provides smart functionality to minimize trim waste, produce the maximum number of boxes in the fastest time, and deliver cut, scored, and perforated boxes as required to make the packing and shipping process fast and reliable. Cabinet, furniture, and general woodworking manufacturers use the Box On Demand machines to eliminate pre-made box commitment and storage, eliminate lost dollars in box obsolescence, while typically improving packing time and output. Custom packing containers can

be made to help eliminate extra protective corners while effectively protecting wood pieces from shipping damage.

Steve Varga, Box On Demand Account Executive, notes, "Our customers put their skill and craftsmanship into the work they produce. The design, attention to detail, and quality are

at the forefront of how woodworking companies and furniture and cabinet makers think of each job they build. Whether a small custom order or a large production run, the skilled tradespeople take pride in what gets delivered to the customer. Running the risk of shipping damage because boxes or protective trays are not sized and fit correctly to the items to be shipped is not acceptable. This is why we continue to serve a growing number of cabinet makers and other woodworking companies. They quickly realize value and cost savings in our systems.”

The new Compack EVO machines offer flexibility in packing with fanfold corrugated options in multiple side-by-side bales or up to 6 different corrugate types and sizes in an inline configuration. Rick Morse, Box on Demand Vice President, states, “The new EVO on demand box machines give manufacturers the accuracy of CNC technology coupled with an easy-to-use operator interface.”

The Compack EVO is also equipped with an optional trim scrap conveyor. The conveyor quickly and automatically carries any trim from the box making process away and puts it into a scrap bin. Morse says, “The trim conveyor is a great feature for cabinet and woodworking companies because their protective packing tends to be heavier duty board in larger sizes. This means the trim is also longer, automatically moving the trim into a bin can be important for keeping packing productivity at its peak”.

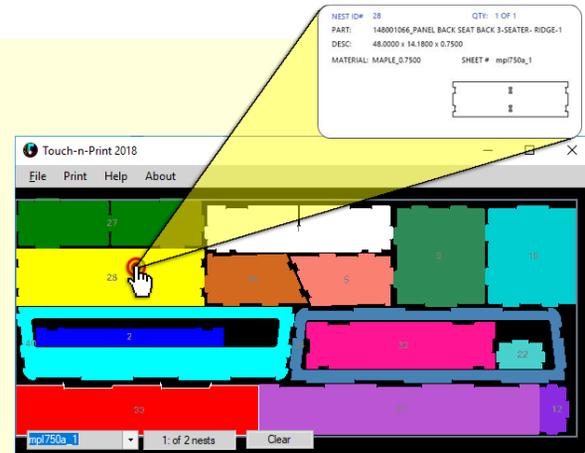
CIM-Tech releases new Touch-N-Print

CIM-Tech.com will demonstrate their new Touch-N-Print application at the WMS Canada show. CIM-Tech's Touch-N-Print is a newly improved feature of Router-CIM 2018 software that seamlessly transfers creations from design software to manufacturing routers. Touch-N-Print is an interactive labeling system that increases the efficiency of printing labels on one, two and three dimensional parts created from AUTOCAD, AUTODESK Inventor, Solid Edge or SOLIDWORKS to any CNC manufacturing machine.

By displaying a nest in the Router-CIM Automation Suite, the new Touch-N-Print allows the user to print the unique and specific labels as they are needed. This on-demand label printing is done on a computer right next to the Router or can be installed on a Windows based control in the Router.

Sheldon Prom, CIM-Tech.com Application Engineer, says, "By utilizing the touch screen you simply touch the part with your finger or mouse and the label will print immediately. You can print one single-part label or an entire nest. Touch-N-Print is especially appreciated when the collection of parts is very large, and very similar, such as those needed for intricate furniture, airplane or boating parts."

Touch-N-Print can be customized with any graphics and is compatible with Dymo and Zebra printers for quick label printing.



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Blum witnesses an increased revenue of 2016/17



With a revenue increase of 8 % to 1,788.08 million euro, fittings manufacturer

Blum reports a successful

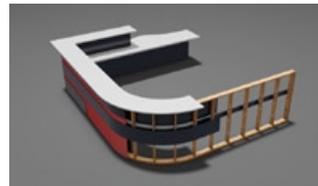
conclusion to the financial year of 2016/2017, which ended on 30 June. Innovative products, international market presence, consistent investments in R&D and highly qualified staff mean that the family enterprise headquartered in Höchst (Austria) can celebrate a revenue increase that is worth its name. 48% of the company turnover was generated within the EU, 16% in the US. Blum supplies 120 markets all over the world, making it one of Austria's largest export companies. In June 2017, the company won the prestigious Austrian export prize, the "Global Player Award", in recognition of its outstanding performance in exports.

"The high level of motivation of our worldwide team and the excellent cooperation of all departments and organisations within our group are an essential building block of our success", says CEO Gerhard E. Blum, summing up the fundamental importance that Blum attaches to its employees. During the past financial year, 7,140 persons on average worked for the fitting manufacturer, an increase of 291 persons

compared to the previous year.

During the past financial year, the fittings manufacturer based in Vorarlberg has seen growth rates across all market regions. For instance, most markets in Western Europe reported an increase in sales. The only exception was Great Britain, where the falling pound caused a loss of revenue. Eastern Europe, however, continued to thrive, with growth figures also reported for Russia and Turkey. The fittings specialist also achieved excellent results for North American and the Asia-Pacific region. Throughout the financial year of 2016/2017, material prices remained a challenge. Steel prices soared towards late 2016, followed by zinc, packaging materials and other listed commodities.

Microvellum showcases new product Builder technology at AWFS



Microvellum Inc., a leading cabinet design to manufacturing software provider, specializing in AutoCAD-based CAD/CAM/CIM technologies, was headed to AWFS 2017 in Las Vegas, Nevada July 19-22, North America's largest woodworking show in 2017.

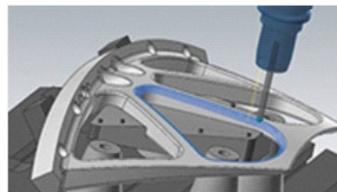
Microvellum's first product builder, Extruded Product Builder, was previewed at last year's IWF trade show in Atlanta, Georgia and later released to market in the Fall of 2016. Extruded Product Builder enables users to create machine-ready 3D products from simple 2D AutoCAD sections. "Some users have labeled Microvellum's Builder Technology as magic", stated Fairbanks. "It automates the process of creating complex products that often take days or weeks to engineer." Users of this AutoCAD-based, time-saving tool can create one-off products in minutes. Fairbanks added further.

Microvellum debuted an updated version of Extruded Product Builder at AWFS 2017. Their latest release included added functionality, automated tools and user-requested features.

Along with the updated version of Extruded Product Builder, a new product was also showcased. "After the successful launch of Extruded Product Builder, our development team started on the next product builder, Unique Product Builder." continued Fairbanks. "We wanted to provide users with a tool to quickly create one-off cabinets, products that may not exist in a library. We focused on using a visual means of

designing and engineering products, a core principle of our Product Builder technology. We're proud to announce that the tool is a completely new way of building products and it's already gaining interest within our user base" continued Fairbanks.

Mastercam incorporates with Sandvik Coromant CoroPlus ToolLibrary



CNC Software, Inc., developers of Mastercam, in partnership with Sandvik Coromant, announces the integration of Sandvik Coromant CoroPlus ToolLibrary into the new release of Mastercam 2018. The integration of the CoroPlus ToolLibrary allows Mastercam customers to save significant time searching for desired tools and building 3D tool assemblies that can be brought directly into Mastercam via the ISO 13399 data format.

Mastercam developers worked closely with Sandvik Coromant product management to let users import 3D tool assemblies directly into Mastercam's toolpath operations. Users of Mastercam benefit from having

the correct tooling for the material and for the type of machining operation, plus an accurate, 3D model that can be used for visualization and collision checking in addition to the time savings.

“In the past, customers had to search through thousands of catalog pages and cross-reference multiple sources to create the tool assemblies needed to machine their parts,” says Dave Boucher, Director of Product for CNC Software. “Now, they can save significant time and effort by quickly searching and building 3D, virtual tool assemblies using the CoroPlus ToolLibrary interface, and import them directly into Mastercam when they program their parts. As a digital database and part of a customer’s digital machining environment, they get instant access to the latest cutting tool data and technology available.” Dave added further.

“The tool library solution allows you to put the different tool items together – for example a milling cutter, the inserts, and the holder – and then have an accurate representation of the actual tool,” states Pernilla Lindberg, Product Manager Process Planning at Sandvik Coromant. “To partner with, and have the support of a leading CAM (computer-aided-manufacturing) software provider such as CNC Software and Mastercam, we are excited to expand the digital machining environment and foster the

standardization of cutting tool data.” Pernilla concluded.

Wood Mizer introduces new Pallet Hawg PD200



The Wood-Mizer Pallet Hawg PD200 Pallet Dismantler is designed for a full range of pallet recycling including pallet prep, repair, dismantle, and recovery. Due to the unique combination of high torque and low RPMs, the Wood-Mizer pallet dismantler has an expected blade life of 1,000 to 1,500 dismantled pallets per blade which is nearly double the blade life of competitive pallet dismantling saws.

Designed for one or two operators, the PD200 features a sturdy welded steel tube frame that firmly supports two pneumatic wheels.

The bi-metal blade that cuts the nails to dismantle the pallet is powered by a 10HP electric motor with a gear reduction drive. A pneumatic table lift has preset heights to enable quick and convenient shifting between upper and lower cut points to easily remove stringer boards, blocks, and deck boards of a pallet.

Holz-Her represents a new theme – ‘EnVision It’ at AWFS to-Floor Hardwood Floor



EnVision It, the theme for this year’s AWFS Fair, offered their customers a true definition of what

Industry 4.0 is all about.

Holz-Her invited visitors to visit their Technology Center in the center of their booth and to see what one can do with their simple and powerful manufacturing solutions that fully span both solid wood and panel processing applications.

EnVision sending multiple jobs to multiple machines from one workstation – and using no route sheets or unnecessary inventory. EnVision parametric product scalability without a single redesign – and without any G-code programming. EnVision designing and producing complementary products, one never considered before.

“No programming. No paper. No inventory. No problem. EnVision It. Make it Happen” – Holz-Her.

Madera introduces Titan – the new Forest-



Madera, a Brooklyn-born hardwood flooring company, is launching Titan -a sustainably harvested and locally made white oak floor of awesome proportion.

Titan is crafted of Pennsylvania White Oak, custom milled on a project to project basis. The logs are sawn and milled using traditional woodworking techniques, extracted from the forests by logging horses, rather than mechanical skidders which often damage the forest floor. The choice of only the tallest, straightest trees makes it possible to achieve these extraordinary dimensions. The 12” wide board finishes well over 1-1/8” thick and up to 16 foot lengths. The giant floorboards once installed are sanded and finished on site using natural clear oils that enhance the oak’s natural beauty. Pennsylvania White Oak from the Northwest of the State is full of character and warmth, while featuring rich, striking colors with dynamic variation.

The White Oak trees themselves are part of the ecological restoration of western Pennsylvania, an area that was decimated by the booming oil industry up until the mid-19th Century. These mature trees need to be properly harvested



for the overall health and diversity of these magnificent forests. This forest-to-floors approach is modeled after the farm-to-table movement of the food industry, creating a direct link between the architect and client to the source of the wood.

As an alternate to their American made Titan Floor, Madera also provides Titan Balanced which is a 3-ply engineered European Oak hardwood floor. Titan balanced offers the same awesome dimensions as Titan but with superior stability. These trees are sustainably harvested from Germany's Black Forest. German oak has a more open grain with less variation, simple textures and cooler, more subtle tones. This floor can be finished in advance at a state of the art floor finishing facility. Madera chooses to only use finishes that are understated, expressing a natural elegance that draws on inspiration from Scandinavian culture and design. The German Oak top and bottom surface is balanced by a softwood interior, which prevents bowing and shifting as temperature and moisture levels change. These monumental planks are up to 13 feet long, 14 inches wide, and over $\frac{3}{4}$ inches thick. Titan Balanced is stocked locally for projects with shorter lead times and design constraints and is most suitable for projects with more varied climates.

Häfele introduces the new 2017 Architectural Hardware catalog



Häfele is a company that has always been about the details—whether it be the design and function of a seemingly simple connector or a massive sliding door system used in luxury homes and commercial projects.

Specifiers and designers will find all those details and more in latest edition of The Complete Häfele for Architectural Hardware, available now. This 500+ page catalog is packed with everything those in the project business need to add the innovation and functionality Häfele is known for the world over.

The Complete Häfele for Architectural Hardware is where all the projects begin.

- The 2017 version of The Complete Häfele for Architectural Hardware is available now
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Fenestration Canada

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