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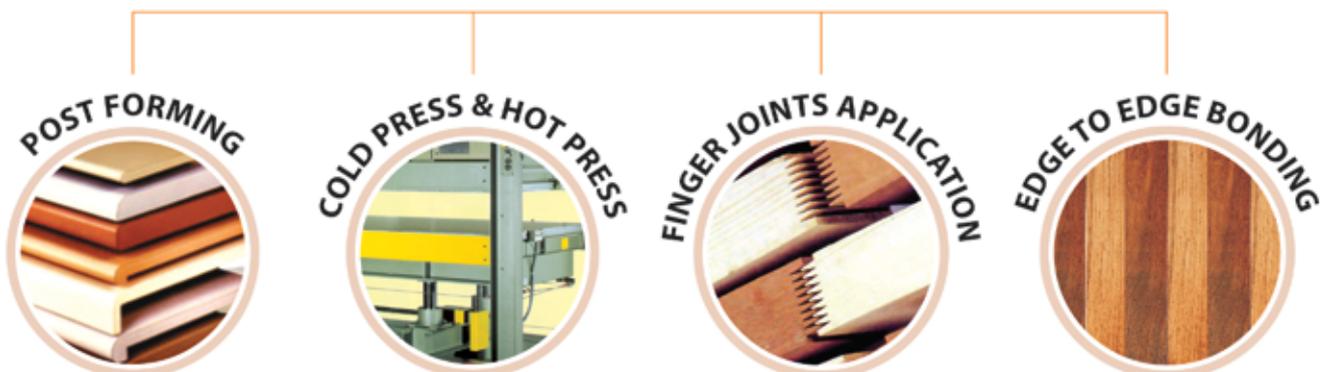
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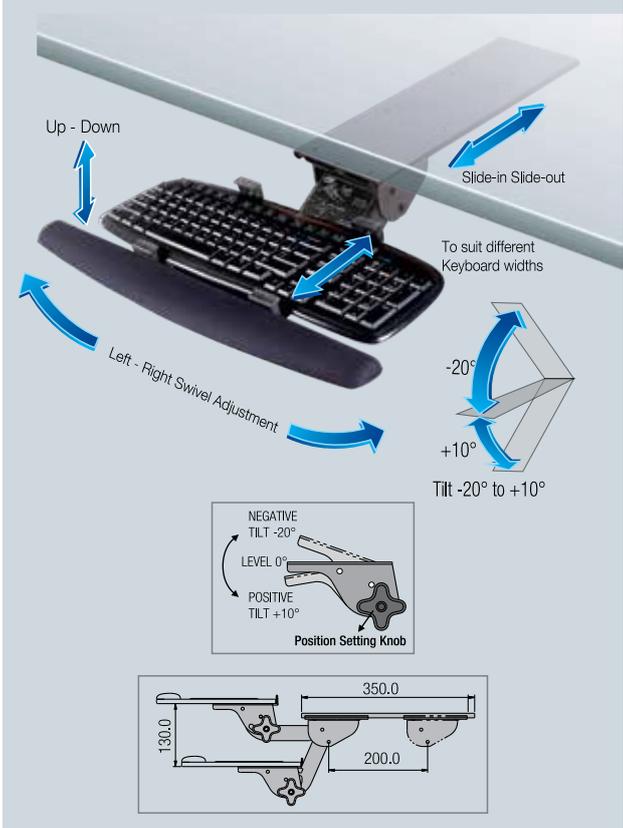


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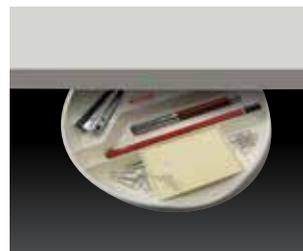
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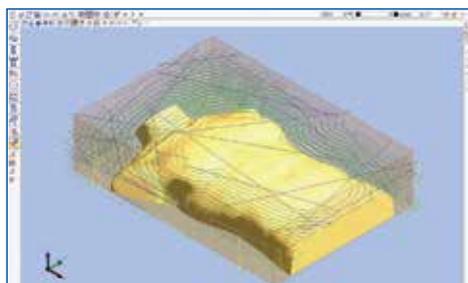
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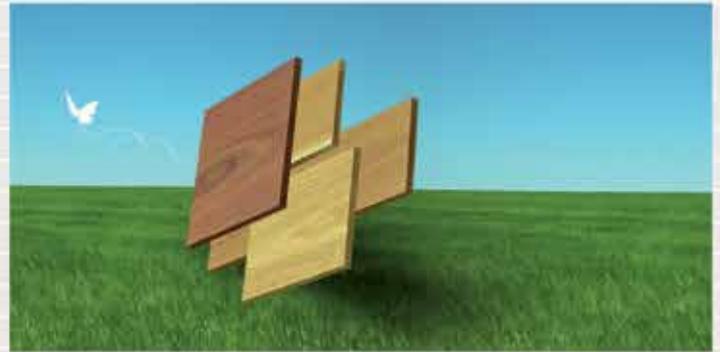
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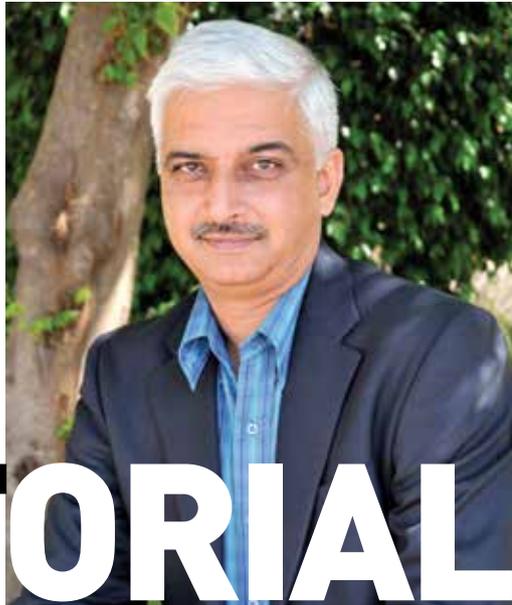
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EDITORIAL

Towards Industry 4.0

Hello Readers!

Ligna 2015 (Hannover, Germany) was an eye-opener. Or rather the manner in which most of the developed world is working to achieve the goals of 'Industry 4.0'. This is a collective term for technologies and concepts that go to facilitate the conversion to "smart" factory production. This idea is to bring together intelligent machines, advanced analytics and people at work, and is characterised by interoperability, virtualization, decentralization, modularity, real-time capability and service orientation. There is more by way of explanation and description in our cover story this time.

At Interzum also – where the world converged early in May (Cologne, Germany) to debate and display the latest in material and finishing for the furniture and interior design industries – there was across-the-board diversity in original ideas, colour concepts, decor designs and patterns, and a fresh focus on conservative use of materials. Read more in the Review section.

However, there was an even more exciting development. At both these venues there was an unmistakable trend: the number of visitors from the sub-continent, especially India, shot up this year. Industry watchers and experts have indicated a resurgence in India in furniture manufacturing round the corner!

In the course of these premier woodworking fairs many of the machine and materials manufacturers that *WoodNews* met with and spoke to, also expressed keen interest in the growing Indian furniture and fittings market. It should not be a surprise, therefore, if many of them turn up at IndiaWood (Bangalore, 25-29 February, 2016) to look for representation in the country and to strike business partnerships!

Talking of partnerships, it is interesting to note the efforts of Greenpeace, the non-governmental organisation, in helping authorities in the UK to create better awareness about reverting to wood in the manufacture of windows! It makes a compelling argument to move away from plastics-based material, which you can read in the following pages.

In the West, top timber-based manufacturers and brands have made their resolve clear to adhere to the European Union Timber Regulations; they have even made out a case for stricter norms and their implementation. Nearer home, a group of young entrepreneurs in Bangalore teamed up a few years ago to meet the burgeoning need for factory-made doors: their story also finds its place in this issue of the magazine.

As we approach MumbaiWood 2015 (1-3 October), *WoodNews* will bring you more on the preparations for, expectations from and build-up to Western India's premier woodworking trade show. This time too, there is the 'Sourcing Forum' to facilitate interaction between furniture manufacturers and top e-retailers in the country! Until next time, happy reading.

Dhananjay Sardeshpande

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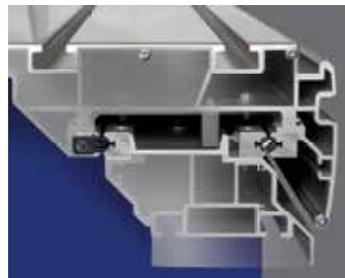
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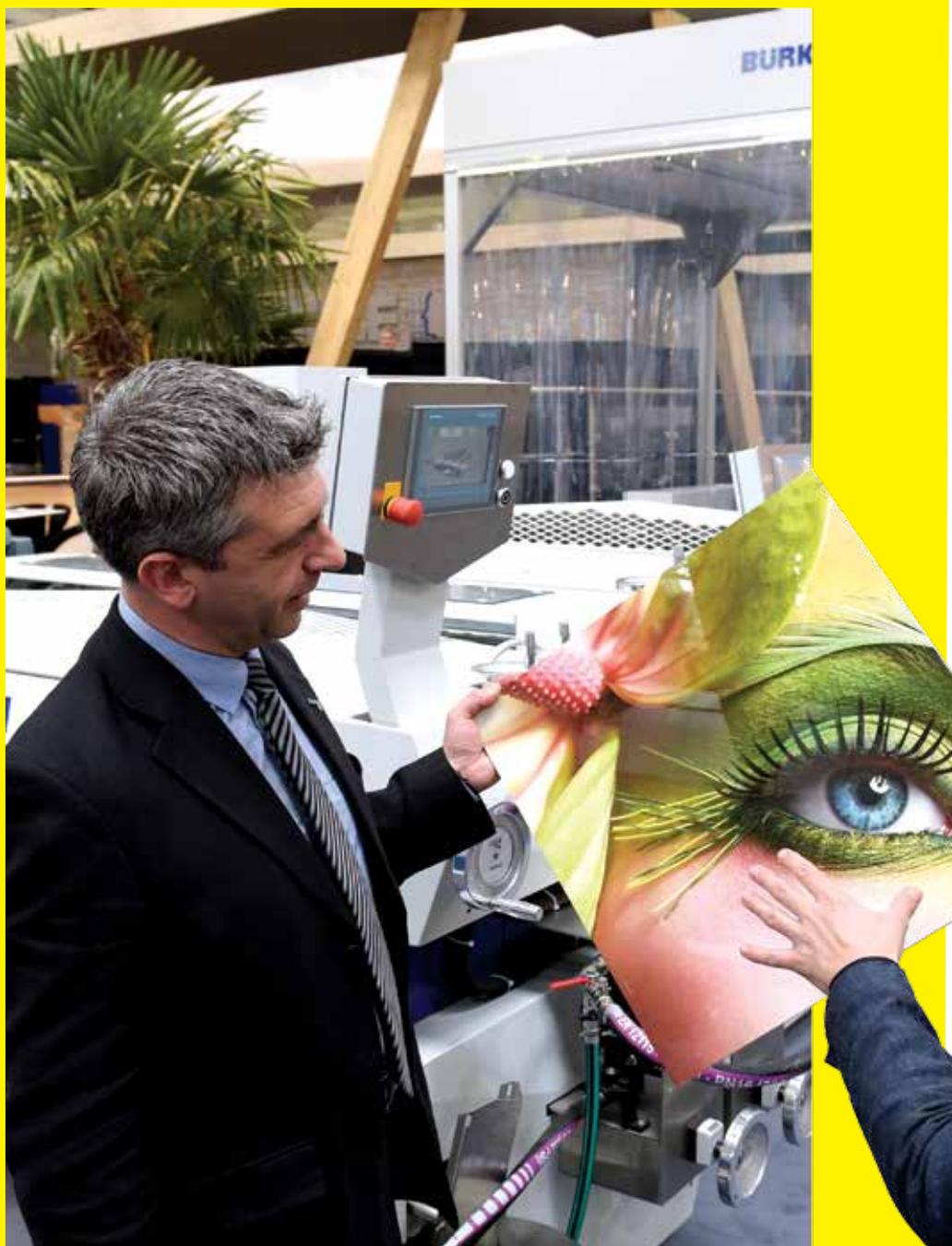
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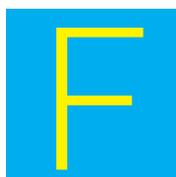
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Towards 'smart' manufacturing

'Jump' in Indian visitor count at Hannover trade fair may signal rising interest in domestic woodworking industry





For anybody interested in doing international business in woodworking, Ligna 2015 (Hannover, Germany; 11-15 May) was clearly the place to be! According to Dr. Jochen Koeckler, the Deutsche Messe managing board member in charge of the world's largest woodworking trade fair, "More than 25% of trade visitors here were either planning to place orders at the show or had already done so!"

This year's Ligna struck a chord among exhibitors and visitors – a chord embodying three resounding notes: outstanding international participation, impressive innovation and a further increase in top-executive attendance. A total of 96,000 visitors attended the fair, including approximately 40,000 from outside Germany.

The top visitor nations were Austria, France, Italy, the US, UK, Russia, Belgium, Poland, Sweden, China and Brazil. Attendance from Asia was up considerably, 2,800 in 2013 to 4,700 in 2015. An increase of 86% was noted for West Asia, and an increase of 62% was registered for South, East and Central Asia.

There was a marked upswing in visitors from India too, as confirmed by Indian representatives of Altendorf, Biesse, Cefla, Homag, Leitz, SCM Group, SleekBoards and Venjakob – however, numbers were not available at the time of going to the press. This is seen by experts as an indication of renewed interest in furniture and panel & board manufacturing on the sub-continent.

Koeckler classified Ligna 2015 an outstanding success for all parties concerned, featuring an impressive array of innovative technologies and

Advances in digital printing technology had to be seen to be believed.

production scenarios, large-scale machinery and the rapid strides made by Industry 4.0 in the woodworking and wood processing industry.

Some 1,567 exhibitors showcased their leading-edge solutions, technologies and innovative production equipment on more than 1,20,000 square metres of display space. There was a clear focus on integrated, high-efficiency manufacturing.

Live demonstrations of furniture production in simulated factory settings were right on target for visitors, offering them a first-hand glimpse of the benefits of integrated manufacturing. There was also a wealth of information to support attendees in their future purchasing decisions, with exhibitor presentations focusing strongly on the aspects of flexibility and economic efficiency.

New ideas for customized mass production featured at this year's Ligna – some of which WoodNews has featured in this issue – will set the agenda in the woodworking and wood processing sector for years to come. Solid wood working displays featured a wealth of new technologies and efficiency-boosting innovations. Here too, the spotlight was on integrated manufacturing and substantial cost reductions.

What's Industry 4.0

This is a collective term for technologies and concepts of value chain organization, based on the technological concepts of cyber-physical systems, the Internet of Things and the Internet of Services, to facilitate the conversion to "smart" factories.

The Western world is getting together manufacturers, suppliers and technology companies, universities, R&D facilities and advocacy groups, government agencies and laboratories to develop approaches, build platforms, set benchmarks, and share





Forestry and log processing machines continued to make substantial strides in efficiency.

infrastructure to facilitate the broad adoption of manufacturing intelligence.

These developments bring together three elements: intelligent machines, advanced analytics and people at work. The first Industrial Revolution was the mechanization of production using water and steam power. The second brought in mass production with the help of electric power; and the third followed introduced electronics and information technology to further automate production.

The six principles of Industry 4.0 are:

- **Interoperability:** the ability of cyber-physical systems (work piece carriers, assembly stations and products), humans and smart factories to connect and communicate with each other via the Internet of Things and the Internet of Services
- **Virtualization:** a virtual copy of the smart factory which is created by linking sensor data (from monitoring physical processes) with virtual plant models and simulation models
- **Decentralization:** the ability of cyber-physical systems within smart factories to make decisions on their own
- **Real-time Capability:** the capability to collect and analyse data and provide the derived insights immediately
- **Service Orientation:** offering of services (of cyber-physical systems, humans or smart factories) via the Internet of Services
- **Modularity:** flexible adaptation of smart factories to changing requirements by replacing or expanding individual modules.

Cost Efficiency

One of the largest challenges for the furniture industry is to optimize cost efficiency. Furniture manufacturing and retail alike are characterized by low yields on sales and high logistics

costs, and rely on process engineering to provide significant improvements in efficiency and error reduction.

Tagging products for identification and tracking has been steadily gaining importance throughout industry. RFID (radio frequency identification) technology offers the furniture industry huge potential and advantages today, which was displayed in a special project at this year's Ligna.

The collaborator for the RFID theme, German company Abaco Information Systeme, together with its qualified partners, presented the furniture industry with a 500-square-metre activity zone: the "RFID Factory".

It demonstrated a modern and efficient furniture-industry processing chain in its entirety, with state-of-the-art machinery at every step of the way. The goal is to organize the flow of goods and information across the furniture industry supply chain more efficiently, using RFID technologies.

Ligna's status as an international networking hub for the industry was further enhanced by the Wood Industry Summit. With its mix of discussion and presentations, it proved an instant hit with its target audience. The Finnish firm Ponsse reported receiving outstanding leads from Ukraine, Russia, China and Brazil.

Other Winners

Ligna concentrated on a completely different aspect in special presentations entitled 'Surprisingly Versatile'. Here the main focus was not on wood – instead, exhibitors showcased the flexibility of their technologies for dry-machining many different kinds of materials.

For some machine manufacturers this was a special Ligna edition for showcasing a vast range of technology: from intelligent cell systems to advanced software suites; from joinery machines to working centres for the home-building sector, to technologies for surface finishing.

Revamped Ligna in 2017

Ligna 2017 (22-26 May) in Hanover, will feature a revamped, more visitor-centric layout of themes. The organiser, the German Woodworking Machinery Manufacturers' Association (VDMA), declared that new structure will reflect visitors' work situations more accurately.

"There is no longer a clear demarcation between skilled trade and industrial-scale operations; the choice of machinery is no longer driven by size or scale; and the differentiation between solid wood and wood-based panels has lost relevance in many cases," said Dr. Bernhard Dirr, Managing Director of VDMA, adding that the new site layout would reflect the changing needs of trade visitors and it more productive for exhibitors.

The most notable change is the consolidation of three display categories revolving around processing technologies: solid wood processing, furniture industry and wood crafts (skilled woodworking trades).

Another reason for the change is that many companies do not focus exclusively on solid wood or wood-based panels, which has resulted in a broader range of machinery being offered by machinery manufacturers.

Large machinery was also well represented at the event, particularly in the section dedicated to forestry. The sawmill technology displays put the spotlight on increased efficiency and added value. The panel products section clearly reflected the growing significance of timber construction and skilled trades displayed a growing interest in CNC technologies.



Automation, high productivity and configurability were the watch words among machine manufacturers.



There was ample demonstration of motivation, skills and high spirits all round, as in these outdoor "wood sports" at Ligna 2015.

Smart manufacturing got a boost from the 'RFID Factory' project.



Altendorf F45 redefined

New concepts, new design, new controls make older sliding table saws obsolete!



Altendorf unveiled a completely redesigned F45 at Ligna 2015 to replace the current series, which it launched in 2006 to mark the company's centenary. The new design certainly catches the eye with its clean grey and anthracite colour scheme and elegant front panel.

The new model's striking and unmistakable appearance is but a fraction of the story though: the technology it contains also represents another major step forward for the sliding table saw. Almost everything – from machine frames to motors to control units – has been comprehensively redesigned with the explicit aim of improving performance in all areas.

So far-reaching has the design overhaul been that Altendorf has decided to drop the rest of the old model names at the same time: the new generation comprises "just" the F45, which still offers a wealth of choice to users.

Each of these three control units – Altendorf is the very first manufacturer to be able to offer this – gives the user full electronic control of all four axes and can also tilt the saw unit to either side

(subject in each case to the corresponding hardware options being selected).

Altendorf's new F45 embodies a modular machine concept offering endless configuration options for every user. The only decision to be made right at the very beginning is which of the three new control units to pick. That choice made, the user is free to add as many or as few accessories as are required from the extensive catalogue.

ProDrive Control

Like the other two control units, the F45 ProDrive can operate all four CNC axes (height and angle, CNC rip fence and CNC crosscut fence) provided

corresponding hardware has been specified. And, like the other two, it can also control the saw unit tilt (up to 46° to either side) with automatic height correction.

The F45 ProDrive automatically corrects the positioning of the rip

fence when the saw unit is tilted too and controls the optional vacuum clamping system for secure retention of large workpieces. Along with a 99-programme cutting memory, the control unit is mounted at eye level and includes a keyboard for numerical data entry.

- Motorised rise/fall adjustment for the main saw blade with digital display
- Automatic cutting height correction when saw blade is tilted
- Motorised crosscut fence adjustment with one motorised axis and manual extension to 2,900 mm
- Digital speed display or infinitely variable speed control (Vario)
- Motorised adjustment of the scoring unit
- Continuous precision axis control using +/- keys
- Control of the vacuum clamping system in the sliding table
- Easy axis calibration
- Machine diagnostics & USB interface
- Operating hours counter & "back" function.





EvoDrive Control

The F45 EvoDrive has a 7-inch touch screen with keyboard for entering numerical dimension specifications. It can control up to four axes, including saw blade tilt to either side. What distinguishes it from the ProDrive is its pre-installed application technology: the F45 EvoDrive defines inside and outside dimensions automatically from the material thickness data supplied.

The EvoDrive makes life simpler and includes additional grooving, incremental dimension and bevel rip features, plus a compound mitre function and tool management system. It has very substantial memory capacity too, allowing users to input a total of 999 programmes via the keyboard for rapid subsequent retrieval.

- Automatic conversion of inside-to-outside dimensions for the rip fence
- Crosscut fence as a function of material thickness and set angle
- Compound mitre function with automatic calculation of missing angles / dimensions
- Enhanced tool management with memory for scorer position (three-axis scorer)
- Up to 100 tools and memory for 999 cutting programmes
- Groove function: rip fence positioned automatically step-by-step
- Bevel rip: required finished size is achieved by cutting away the excess.



ElmoDrive Control

The F45 ElmoDrive incorporates the most advanced and comprehensive control technology in existence for sliding table saws. It provides all of the functions of the other two control units and more. Functions are easily accessed and clearly presented on the 12-inch touch screen.

The calculator function sends results directly to the axes, the geometric shapes function and function for cutting mitre joints between pieces of different widths both include automatic calculation of missing angles/ dimensions and there are compound mitre and tool management features as well.

The lower part of the display can be used to store functions that are required on a regular basis (in the manner of a PC desktop) for even more efficient operation. The F45 ElmoDrive is the only control unit that can be linked to a PC with a cut optimisation package. It also provides a 9999-programme memory for the storage and rapid retrieval of cutting programmes.



Altendorf has, of course, redesigned and adapted all of its accessories to the possibilities of the new F45 machines. It has also added two completely new options in the form of the toolbox and the crosscut fence UNO90. The practical toolbox – a closable container located under the sliding table as a visual extension of the machine front panel – can hold up to six tool carriers (maximum saw blade diameter 550 mm) ready for use.



Also new is the CNC crosscut fence UNO90. Fixed in the 90° position, the UNO90 helps users to size panels and cut workpieces to length with great precision. The flip stop has a maximum travel of 1,900 mm as standard, but the extension supplied can be fitted manually to give a maximum dimension of 2,900 mm, if required.

Corrections

In the article on Godrej Interio (WoodNews, May-June, 2015) the correct spelling of the popular Godrej brand should have read 'Storewel'.

In 1993 Godrej added an Anderson table router and hand-held manual edge bander.

A Weeke router and a BAZ router-cum-edge-bander joined the stables in Vikhroli after the year 2000.

One of Godrej Interio's plants in Bhagwanpur is located in Uttarakhand, not Assam. The errors, though inadvertent, are regretted.

– Editor.

Duspohl sets benchmark in wrapping technology

Profile change on new RoboWrap reduced to 5 minutes

Duspohl's wrapping and laminating machines are characterised by quality and design for a long production life. The technological demands of its customers, as well as their requirements regarding the degree of automation and performance, result in an optimum machine.

A Duspohl wraps wooden, PVC or metal profiles with all known finishing materials, in reels and sheets. Its EasyWrap, MultiWrap and PowerWrap premier class laminating and wrapping machines are already in operation in several countries across the world.

The new RoboWrap meets the producer requirements in terms of shorter set-up times with simultaneously smaller lot sizes and reduces these times to only 5 minutes by employing both modern and tested robot technology. The necessary input is extremely simple, and is logged by the control software and implemented using an automated process.

Three chain bins within robot gripping distance store up to several hundred pressure rollers of varying geometries. A 2D laser scanner measures the individual rollers in a fraction of a second at each pass and stores data on the diameter, contour and position.

The RoboWrap puts every other conventional solution in the shade, when the total of 19 six-axes robots independently access the optimum



pressure rollers and move with the rollers in the required position and are thus ready for the start of production.

This solution was awarded the transfer price and the Innovation Award at Ligna 2015.

Benefits

- Reduces the setup time for a complete change of profile to 5 minutes
- Automatic delivery of pressure rollers to the required wrapping position
- Intuitive software handling, including database maintenance
- Modular design to facilitate subsequent expansion
- Connection to planning systems.

Duspohl Maschinenbau GmbH, a Cefla company, is one of the world's most innovative when it comes to developing profile wrapping technologies, laminating and peripheral machines for the wood and plastics processing industries. (www.duespohl.com)

Ceratizit exhibits KCR product line

Ceratizit SA presented three new KCR carbide grades for wood machining. The carbide expert manufactures knives and saw tips from chrome grades for tool producers. The product line offers customers wear-resistant solutions for the machining of particle and fibre boards, hard and soft wood as well as composite materials.

It added three corrosion-resistant

grades: the KCR02+ for the machining of highly abrasive wood materials such as MDF and HDF boards; the KCR32 for high cutting performance under extreme machining conditions (frozen lumber); and KCR08 knives and blanks.

The sub-micron chrome grade KCR08 forms part of the standard range of toolmaker solutions by Ceratizit, replacing the previous HC05 grade.





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The new KCR02+ nano-grade combines the mechanical properties of the ultrafine grade SMG02 with the advantages of an alloyed binder which optimises toughness and makes the

carbide corrosion-resistant. It is easy to braze and , and the chrome grade is available in standard and individual geometries for saw tips and knives.

The KCR32 offers customers 15% improved fracture toughness when compared to the current grade GC32. The coarse grain grade improves tool life

while offering high corrosion resistance.

The Ceratizit Group develops and manufactures innovative solutions for tool manufacturers, including rods and carbide inserts for machining of wood, stone, metal and composite materials.

Felder unveils large-table planer

The high-quality Felder surface planer, A-951L, impresses with innovative detail solutions and a planer table unrivalled in its class. The generously dimensioned machine table is perfectly integrated into the new design and conveys the recipe for success of the newest Felder planer at first glance.

The Felder jointing fence has a space-saving design and allows the machine to be installed directly on the workshop wall. The fold-down high-comfort planer guard is integrated into the machine chassis and provides maximum freedom of movement during planing work.

The outstanding feature of the A-951L are the heavy, solidly ribbed planer tables with a total length of almost 3 metres. The length of the feeding surface planing table alone is an impressive 1800 mm, providing a safe support surface for even the biggest woodworking challenges.

An impressive 510 mm planing width even satisfies large-size woodworking requirements. The innovative design of the Felder jointing fence allows the extremely space-saving positioning of the machine directly on the workshop wall without restricting the planing width.

The jointing fence can be tilted to any angle from 90 to 45 degrees, with the planing fence ruler always remaining on the table level. The patented planer table

adjustment system with precise depth of cut quick-adjustment and an easy-to-read scale ensures outstanding planing quality.

The Felder surface planing protection is integrated into the machine chassis in a space-saving manner and can be folded down at two places for maximum mobility.

The proven Felder system planer cutterblock, with its 120-mm cutting circle, guarantees a perfect planing pattern and the self-adjusting reversible knives save time and money when changing the blades.

Like all new Felder planing machines, the A-951L can also be fitted with the revolutionary 'Silent Power' spiral knife cutterblock. It reduces noise emissions during planing by more than half, offers an up to 20 times higher usable blade life compared to conventional HSS blades, and has a continuous pulling cut for tear-free planing results with any type of wood.

Benefits

- 2,700-mm surface planer table length
- Minimal space requirement due to optimised jointing fence design



- Top work safety with optimum ease of use
- Easy-to-read depth-of-cut scale integrated into chassis
- Silent-Power spiral knife cutterblock cuts noise emission by half
- Outstanding extraction results due to optimized chip spaces.

Other machines launched in 2015, which were also on display at Ligna this year were four new CNC machining centres from Format-4; Tempora and G360 and G480 edge banders; clean air dust extraction systems; premium wide belt sanders and band saws; Kappa automatic beam saws; and the MF spindle systems for Felder and Hammer.

The Tirol-based (Austria) Felder Group is among the world's leading suppliers of woodworking machines for the artisan, commercial companies and industry. With a 400-year tradition of smithy it has employees in 72 countries, including India.



Homag goes beyond 'just simulation'

New packages, more options: High-tech becomes standard with Homag.

The use of virtual machines in realistic environments is an essential tool for the Homag Group in achieving this development objective, making time-consuming conventional machine and plant development a thing of the past.

Its new concept, RealityPlus, permits faster, more flexible and more detailed development of plant, machine and unit innovations, including software, right through to the finished product. RealityPlus allows boundaries to be virtually sounded out, providing high-tech development and process optimization capability, as it provides a seamless transition from the virtual world to the real world.

This virtual reality is more than "just simulation". By using real control system components, the virtual machine is able to depict real life situations. Among the advantages this offers are secure investments, virtual commissioning of machining lines or software and testing of physical limits, and optimum quality by realistic testing environment.

Among the new technologies showed at Ligna were the wedge-dowel unit from Weeke, the sealTec procedure of Homag, as well as the vision of a new possibility for the optimization of the interaction between human and machine of Holzma.

The Weeke wedge-dowel unit is a

special-aggregate for fitting insertion into a miter edge, taking into account the reference value "distance between dowel profile and work piece surface". Different mitering angles are possible.

The sealTec increases water and water vapour resistance. Using this method, sealingAgent – a fluid with water repellent properties – is applied to the narrow surfaces of furniture components prior to edge banding. In order to improve water and water vapour resistance, it is sufficient to just apply the sealingAgent in the transition area between cover layer and narrow surface.

The treatment prevents the ingress of moisture through the glue joint to the furniture components. Homag sealTec can be combined with conventional edge banding techniques such as hot-melt glue, airTec, laserTec. etc.

Holzma presented a visionary operating assistance system which facilitates the interaction between human and machine and makes it more efficient. With modern techniques in image processing, the system recognizes which parts are fed into the machine by the operator. After recognition the processing starts fully automatically.

Connecting Products

In the development of new suction devices, Homag is focusing on two areas: detection of chips and energy-efficient

removal of these chips. Now the chips are always removed horizontally – the flow-optimized CFK distributor provides a high level of wear resistance along with a reduction in weight. As an additional advantage, this method reduces the maximum height of the hall that is required.

The five business fields of storage technology, automation and robotics, sorting and picking, assembly technology and packaging technology are playing an increasingly important role in companies of all sizes. Whether manual or industrial production, the quality of the products is not the challenge.

Instead, the challenge lies in achieving optimal output from processing machines by applying intelligent logistics concepts. From high-performance individual products to complex interlinking of processes, and from series production to batch size 1, integrated material flow concepts aimed at optimizing the flexibility of a production process were playing just as big a role at Ligna.

Experts at Homag Automation take the following approach: instead of making processing machines dependent on the material flow, the materials must flow at a rate that is dependent on the speed of the processing machines.

Kuper impresses in veneer work

The Kuper ACR-3200 cross-veneer splicer.



Among Kuper's range of machinery for veneer splicing, the new Kuper ACR-3200 cross veneer splicing machine was the highlight. The optimized veneer intake area has a selectable, infinitely variable height adjustment, especially for wavy and narrow veneer strips.

With the introduction of new precise servo drives and intelligent control processes, significant increases in output have been achieved.

The Kuper CVX line for jointing plywood cores is also a new development – for efficient jointing of peeled veneer strips of different widths. The veneer lay-ons created in this manner are processed crosswise and in layers to form a wood material with special strength properties.

The overall system with superior control:

high-performance clipper plus innovative Kuper CVX. The Kuper Glue Thread and the especially developed heating system guarantee a tight joint. In addition the fast stacking unit for precise stacking of the veneer sheets.

In addition to the zigzag length splicing machines, the new Kuper FWQ was also presented. This zigzag cross splicing machine produces what are known as endless carpets or pre-programmed fixed veneer dimensions from peeled and sliced veneer strips of different widths.

The Kuper FLI-1000 is the bestseller out of the wide range of gluing machines on the European market. Sensitive veneers can be joined perfectly, the accurate glue dosing and narrow heating zone significantly reduces veneer shrinkage in the area around the joint. A new

development allows the jointing of up to approximately 5-mm veneers as an option.

There were also demonstrations of the refined models of the Kuper SWT-XL planing and moulding machines, which have been fitted with the new K² professional control system. It presents graphic representations of specific tooling situations to ensure fast and safe processes.

For example, the positions of pressure elements and manual spindles can be stored, then read and set directly at the right place by means of "dual displays". (www.kuper.de/en).

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Giardina's 'Inerplus' shines out

For Giardina Finishing, a major highlight was its 'GST Inerplus' technology, an application and UV-drying cycle that delivers excellent surface quality, especially for high-gloss coatings, on "conventional" materials laminated with melamine paper or natural veneer.

The Italy-based leader in surface coating technology, was awarded with the 'Trophées Expobois 2014' for 'GST Inerplus'. With this technology, based on an Akzo Nobel patent, you can apply a basecoat and dry it under vacuum, leveraging a special plastic film that presses the material onto the panel surface.

The process increases the speed and effectiveness of UV lamps, resulting in a cycle that significantly improves surface quality with small footprint, lower energy consumption and shorter drying times.

Giardina also featured a finishing line for high-gloss coating, a three-stage process (paint spreading, flash period and drying) showing how easy it is to achieve excellent results with this coating, which is arousing great interest in many markets.

The "made-in-Giardina Finishing" line will be completed by the brand new spraying machine 'Dualtech 501', the flagship of a



family renowned for its excellent performance in lacquer, basecoat and topcoat applications on any surface.

The version previewed at Ligna was equipped with a 2,000-mm-wide belt for increased paint recycling, a new air diffusion system to minimize overspray, and an innovative filtering system. All of this in a completely new design.

This Ligna also provided a new opportunity to show to industry professionals from all over the world the significant benefits of the synergy between Giardina Finishing and Maurimacchine. The latter displayed the "new generation" spraying robot for door coating, provided with a suspension bracket to paint the door automatically on both sides, and another support to finish panels with water-based coatings and dry them in a 'Mos' oven, another battle-horse by Giardina.



GreCon now offers pinpoint solutions



GreCon, the leading international supplier of spark extinguishing systems and measuring systems for the wood processing industry, proved its innovative strength again with trendsetting developments in spark detection and extinguishment, as well as measuring systems.

The new extinguishing nozzle concept, with which GreCon can precisely adapt the amount of extinguishing water to the specific requirements, was on display. Combined with the tried and tested range of detectors, a spark extinguishing system can be designed that can be tailored even more precisely to the customer-specific production requirements.



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A further innovation in the area of fire protection is the possibility to integrate the control console in PLC control systems. With the safety information system BS 7 NET events can be evaluated so that risks can be recognised in time. Different alarm levels are available to trigger protective measures, such as the shut-down of plant areas.

For the first time, rubber – a great disturbing factor in MDF production – can be reliably detected and separated from the wood chip flow with the GreCon wood chip separation system ChipInspector. It sends a combination of low and high energy X-rays through the entire raw material flow.

Because of the material-specific absorption behaviour of organic materials, materials of the same weight per unit area, such as wood and rubber, can now be reliably distinguished with this technology.

As the first system of its kind, the GreCon FiberView allows objective assessment of the fibre quality in the running process. The measured values supplied by FiberView enable the operator of the refiner to produce a consistent fibre quality.

Using the patent pending FiberView, the cooking and refining processes can be precisely adjusted and the consumption of energy and the fibre quality thus be optimised. A saving potential of up to 10

kW per hour, per tonne of wood that is refined can be calculated.

The GreCon Formator automatically reduces material fluctuations in the mat to a minimum. Thus, it fulfils an important pre-condition for a consistent product quality. The cost of production can be significantly reduced by reducing material consumption and rejects.

Fagus-GreCon Greten GmbH & Co. KG is a privately held company located in Alfeld/Hanover, Germany. Its business unit is the market leader in the development and manufacturing of measuring equipment and fire protection systems for many types of industries.

Greda's 5-axes 'Diva' makes her debut



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For Leitz it's "smart" tooling



Leitz also reaffirmed its global commitment to top-notch servicing and 'good as new' repairs.

At this year's Ligna, Leitz addressed the fair topic of networked production. The tool producer showed on both of its stands prototypes of networked tools. Leitz also presented at the fair the research project of eApps4Production.

This reduces the set-up time and almost completely prevents errors during the machine adjustment.

Tools as active and intelligent process components: this is the Leitz interpretation of Industry 4.0.

Visitors also could learn about the research project, eApps4Production. The objective of the project is for the development of engineering Apps being

Mr. Andreas Kisselbach, head of research and development at Leitz explained: "In Industry 4.0, the tools exchange their data via Internet with its networks. Network partners, for example, are machine and tool service. The communication process within the network is automated, making active intervention by users unnecessary."

The objective of the research project eApps4 Production is for the development of engineering Apps being able to collect different information from various production processes and make them available on any terminal device.

able to collect different information from various production processes and make them available on any terminal device. For example, users will be able to detect

The first prototypes of networked tools were on display: they contain tiny data chips with individual tool codes leading into a Cloud. There, data such as master and application data, critical and offset values, performance times and service cycles are saved and constantly updated.



This data, in turn, can be accessed by users, machines and service technicians. The networked tools are further developments of chip tools which Leitz already released to the market in 1993. Its chips are used as memory media and correction values are transferred after each tool is serviced by Leitz.

When the operator loads the machine with the tool containing the chip, an automatic data transfer takes place.

Networked tools are active and intelligent process components, generating data that can be shared with its integrated partners.



In 1993, Leitz released the first chip tools to the market.



critical operating states of machines and tools and will be in the position to collect operating data such as performance times.

Good As New

Also at Ligna, Leitz focused on its post-sale service, with the slogan "Good As New". The tool producer bought machines directly from its service center to the Ligna booth, where visitors could experience the processing stages of a tool as it is re-sharpened or repaired.

In the servicing process, each tool

passes through a number of stages. Leitz showcased nine of those stages, starting with tool pick-up, cleaning and marking. Next steps are inspection, maintenance, shrinking and clamping.

The tool is then ready for re-sharpening, the heart of the service process. Finally the tool is balanced and measured. Each process step is designed for maximum quality. The inspection, for example, is done using measuring instruments that record data from the cutting edges, with an accuracy of a few hundredths of a millimeter.

Leitz service centers and production facilities worldwide use exactly the same type of equipment, allowing for consistent, identical results in service and production.

Founded in 1876 in Oberkochen, southern Germany, the Leitz Group is the worldwide leading manufacturer of tools for industrial processing of wood, wood derived materials, plastic and compound materials. Leitz has sales companies and offices in 36 countries, including India.

Abranet Max for narrow belt sanding



Mirka's patented, state-of-the-art net abrasives have made a turnaround in the abrasive market. Mirka has been pioneering the dust-free net sanding since year 2000 with its brand Abranet.

Abranet is the most effective solution available, both from the health and safety aspects, as well as economically and environmentally. Mirka launched its first narrow belt net abrasive, Abranet Max, for the wood industry.

Abranet Max is a universal product suited for a broad variety of sanding applications. Due to the net structure it does not easily clog up on resinous wood or soft materials, and the sanded surface stays cooler and avoids burning.

The tough aluminium oxide grain gives a high cut ra373te on harder wood types and materials. The symmetric net structure enables an efficient cut and stock removal. Lower pressure is needed and a more consistent surface finish means minimal quality variations in the process when sanding with Abranet Max.

The product offers a long lifespan compared to conventional abrasive belts, which results in a lower amount of belts needed for the job and also cost savings and time efficiency because of less downtime in production due to changing of belts. The product is also well suited for applications where water is used as cooling agent. Abranet Max is available in P80-P240.

Product highlights

- Less downtime in changing belts.
- Net sanding products virtually eliminate clogging and, therefore, last longer than traditional paper products.
- Universal product for a wide variety of materials.
- Belt has no arrows for direction on the backside, which means it can be run in both directions.
- Unique net construction characteristics create a finer scratch pattern resulting in a better surface finish.
- Net structure offers a cool cut which minimises the risk of overheating the sanded surface or burning of the belt.

Mirka also launched a new ceramic premium abrasive paper, Q.Silver Ace, for tougher sanding. This new product is also included in the new system solution for solid surface. Also a new unique Polarshine fast-finish system for high-gloss surfaces was launched at Ligna.

KWH Mirka Ltd., established in 1943, has headquarters in Jeppo, Finland, and an annual turnover of Euro 206 million. Its area of operation covers over 100 countries around the world.

Pallmann's new knife ring ensures quality flake material



Germany-based Pallmann Group unveiled its new knife ring flaker, type PZSC 16-600, during Ligna. It is equipped with an increased amount of knives and thereby meets the market demands for higher capacities at a constantly good flake quality at lower energy consumption.

The knife ring, counter-rotating to the impeller, is driven by a gear motor via chain drives. This well-proven counter-rotating principle of Pallmann flakers ensures that, throughout the entire service life of the machine, all knives at the circumference of the knife ring cut evenly and that the flake material is reliably discharged.

The rotating impeller accelerates the wood chips and pushes them through the interior of the knife ring, where they

are flaked by the knives which are arranged therein.

Besides the flake capacity and flake quality, Pallmann has also put the safe operation and protection of the machine central. All machine components which are in direct contact with the flake material are exchangeable and therewith protect the base frame of the machine.

Special designs have been developed for the knife ring and the impeller as well as for the machine housing. Quality and flake consistency are decisive for the board quality and are, therefore, crucial development criteria.

The professional wood chips preparation with the new flaker, type PZSC 16-600, ensures the flake material for the production of high quality particleboards.

Also launched during Ligna was its newest disc chipper, Type PHS30/12. Disc chippers are especially suitable for the processing of straightly grown round wood into high quality wood chips. These chips are further processed where high quality wood chips are desired.

This is especially the case in the wood-based materials industry for the production of MDF and HDF boards as well in the paper and pulp industry. The disc with horizontal bearing assembly has a diameter of 3.000 mm and is equipped with 12 knives.

As a standard, the chipper is equipped with a slanted horizontal feeding device. Chips are discharged straight down after size reduction. Due to the intake characteristics of the chipping disc, the logs are automatically drawn into the chipper without any additional draw-in rollers.

This type of "drawing cut" results in a low specific energy consumption during size reduction. The material feeding system allows for feeding of logs up to 800 mm in diameter, respectively feeding of several logs at the same time.

Generously dimensioned knife changing flaps allow for easy access to the chipping chamber and quick and safe exchange of the knives.



Fevicol Adhesive Solutions for Woodworking Applications



Fevicol Hotmelt Products

Fevicol's range of edge banding adhesives has several options for manual as well as automatic machine applications. All the products provide good adhesion properties with excellent resistance against heat, cold, moisture and oxidation.

Fevicol Hotmelt AMT Transparent (unfilled) & Fevicol Hotmelt AMT Clear (filled) are ethylene vinyl acetate (EVA) based thermoplastic adhesives recommended for throughfeed edge banders. They can be used with PVC, PP, ABS, veneer, polyester or melamine resin edge bands. Fevicol Hotmelt 382 (filled) Fevicol Hotmelt MNL Clear (filled) & Fevicol Hotmelt MNL Transparen (unfilled) are specially designed for manual edge banding machines. It can be used to apply PVC, HPL, ABS or solid wood onto MDF or particle board.



Fevicol SWR Range

Specially designed for the handicraft industry, this Polyvinyl Acetate based white adhesive meets the DIN EN 204 Stress Group D3 Standard. It is suitable for all types of wood working applications and provides very high water resistance and excellent bonding in lamination with all grades of wood, even in high humidity areas. Fevicol SWR Plus is specially designed for application in cold weather conditions. SWR EQ has even better cold weather performance and can achieve D4 standard by adding 5% isocyanate. SWR LV has very low viscosity. All are non-flammable and non-toxic with REACH Compliance, Low VOC (Volatile Organic Compound) Certification and Free Formaldehyde Certification.

Fevicol PVC Fix

This water/synthetic resin based emulsion adhesive is suitable for lamination of primer coated PVC sheet to MDF. It is also used for manual edge banding of primer coated PVC Strip to MDF, particleboard, ply etc without using any edgbanding machine, making it highly economical. It has excellent bonding compared to solvent based adhesives, as well as high heat resistance, easy applicability and low VOC



Fevicol SH

The classic PVC white glue for wood to wood bonding features unsurpassed bonding strength, good resistance to water and heat, higher coverage and good value for money. It is not only a leading brand in India, but also the most successful brand in the world in this segment, being exported to over 50 countries.



Fevicol SP Range

This range of sprayable, synthetic rubber based solvent borne contact adhesives can permanently bond painted steel, plywood, chipboard, PU foam, muslin, foam rubber, felt, fabric, leather or many other materials. SP-4 is the basic version. SP-5 is specially designed for the automotive industry and is also used to make writing boards using honeycomb cardboard and white laminates. SP-6 also has high heat resistance.

Membrane Press Range

Fevicol Membrane PU is a solvent based polyurethane contact adhesive used to bond PVC foil to MDF, plywood or other materials. It is ideal for door manufacturing, with low activation temperature, fast drying time and good bond strength.



Fevicol Membrane Press Star 2K is a two-component water based synthetic adhesive used to bond PVC film laminate to wood based panels in the modular furniture, modular kitchen and doors industries. It has excellent heat resistance, low activation temperature and high green tack. It is non toxic and non flammable.

Fevicol Membrane Press Adhesive LC.

Fevicol Membrane Press Adhesive LC is a water based adhesive, specially designed for applications in PVC moulded doors. The unique formulation ensures high green tack resulting in strong bonds on difficult substrates. The product does not release any harmful emission and is safe for users with no adverse effect on the environment.



The product can be easily applied using an air compressed spray gun. Its distinctive features ensure effective deposition on the substrate resulting in higher coverage. Since the adhesive is water based the spray gun can be cleaned with tap water. When used with 5% Membrane Press Hardener the heat & water resistance properties improve vastly. This product bonds PVC to most of the wood substrates like MDF, particle board etc. The mixture with hardener has a pot life of 3 to 4 hours. Higher coverage of 6 to 7 doors compared to 4 or 5 doors in solvent based systems. No volatile losses in this water based system.

Sauerland makes inroads into ASEAN region



The team of door manufacturers from the ASEAN region pose at the Sauerland stall at Ligna 2015, at the end of their tour.

The fourth educational trip from ASEAN region, consisting of door manufacturers from India, Malaysia, Singapore and the Philippines, visited the Sauerland factory in Gotha, Germany. They toured the massive factory and witnessed the fire test of all 100% engineered material door which exceeded 63 minutes and halted due to paucity of time.

It showed the most economical way to make the fire-rated doors, lighter in weight, with no additives or inorganic fillers. Later they visited two leading door factories.

Sauerland started supplying in fill or the tubular filler boards to the ASEAN door industry in 2007 and has deeply impacted on the use of timber use and has grown in its use in internal doors and main doors.

Although the product is in use for over 63 years globally and exported to over 77 countries with approximately 1,00,000 doors being made daily somewhere in the world, the ASEAN region uses timber infill.

The key improved properties in doors with tubular infill are:

- **Sound Insulation:** Extruded tubular and solid boards offer a wide range of sound insulation results for light-weight construction as well as high-end solutions.
- **Fire Resistance:** The board being produced by extrusion method, the particle direction is predominantly vertical to the surface which, in case of exposure to fire, provides a low rate of burning. Sauerland offers full

support for safe fire door construction.

- **Construction:** The density in solid areas (walls) of board is high (500 kg/m³). Further, the arch principle, as in the case of construction of dams or bridges, gives high impact resistance.
- **Thickness Tolerance:** Critical thickness tolerance of +/-0.1mm in the board gives rid of telegraphing as the calibrated board gives a beautiful surface finish and a good bond between the skin and the board.
- **Weight Reduction:** Tubular boards as an engineered product ideally suits light weight strategy, value feeling in handling the door and high technical performance.
- **Low Emission:** All Sauerland products are E1 norm for formaldehyde emissions, and lower levels are also possible against special production runs.
- **Straightness:** The tubular structure also helps doors maintain straightness under climatic variations.
- **PEFC/FSC Certified:** All Sauerland products are certified by PEFC. It can also cater to FSC requirements.
- **Swelling in thickness:** Almost zero thickness swelling is noticed in Sauerland boards, compared to flat pressed board with timber infill: this ensures long life for doors.

Among the door manufacturers who undertook the tour were Mr. Amit Jindal of A.K. Lumbers, Mr. Pankaj Chandak of Prestige Interio Concepts, and Mr. Swar Shah of Sujako Interiors, all from India.

The others were from Malaysia and the Philippines. The 14-member team was led by Mr. Nitin Vaze for exposure and education for the ASEAN door industry.



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SCM impresses with solutions



The versatile Morbidelli P800 routing, boring and edge banding machine is an SCM offering.

The SCM Group demonstrated its true nature and what the Italian giant is capable of by presenting 60 machines. Its vast team of over 300 specialists were on hand and ready to listen to the specific and unique requirements of visitor at Ligna this year.

The "smart manufacturing cells", systems consisting of integrated cells (two for furniture production, one for door and window frames) were a strong feature of its presence. Among its latest developments for the furniture machining centres were Morbidelli's Planet P800, Powerflex-S and Cyflex-HP.

Its veritable revolution in edge banding technologies featured in the Stefani edge banding hub, from the interesting sanding features with structured effect by DMC to the new SCM Accord 25FX, a door and window frame machining centre.

It also presented Routech's Oikos machining centre with six interpolating axes, a first for Hannover. "Ligna 2015



The Superfici Mini 'plug-and-play' sprayer also comes from the SCM stables.



The Accord 25FX is a five-axes machining centre.

has allowed us to confirm our market leadership," said Mr. Andrea Aureli, SCM Group's CEO.

He added that in 2014 the group's consolidated financial statement reached Euro 466 million. It announced an ambitious 3-year plan of investments, along with news that it had bagged orders in China worth Euro 15 million and Euro 6 million in the UK.

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Serra launches multi-head saw



Wide band saw blades, new dry sharpener technology unveiled at Hannover

Serra Maschinenbau GmbH introduced its first multi-head technology with wide band saw blades, MK402, with up to five saw-heads in a row. The idea of this model is to use it as a re-saw in combination with another Serra sawmill and replace the standard circular saws.

Its cutting width of 40 cm and the small kerf of 2 mm, together with its low power consumption and low investment, are a serious alternative to the standard systems. Hydraulic feeding system together with its automatic conveyor, grant the operator problem-free operation even with the hardest wood available.

"It doesn't matter whether we are cutting Siberian frozen wood or extreme hardwoods in Peru, our sawmills are working under the hardest conditions worldwide in more than 75 countries," said Mr. Johann Fritz, General Manager of the family-owned company.

"We have discovered a big need of this technology for floor and pallet manufacturers, especially because at more cuts, with short lumber you can increase the productivity much more," he added.

Sharpener

With the new sharpener, Shark 200, the company presents a brand new technology in the area of dry sharpening.

A big grinder wheel (300 mm) and an integrated diamond-tipped profiler grant perfect sharpening. The integrated vacuum for dangerous sharpening dust and easy operation of the sharpener itself are other advantages.



The sharpening of a sawblade with a length of 5,700 mm takes a quarter of the time of what a wet sharpener would require. The design of this technology is protected at the patent office.

Serra also showed a demonstration model of the already worldwide known Africa XE 160, which was specifically developed for industrial sawmilling plants and for extreme hardwoods with a diameter of up to 160 cm. This sawmill model is assisting Liberia in the battle against Ebola by cutting construction wood for hospitals.

As professional sawmill for an optimal price Serra presented the model Alpina KE90 with 6.7m standard cutting length, extendable and hydraulic log handling.

Its 18.5-kW main engine drives the 80 mm saw blade through the logs with a diameter of up to 90 cm.

The new model, Montana MD110, is interesting for contract saw millers, a complete mobile sawmill with a diesel engine as main engine. Different cutting lengths are available. Its maximum diameter is of 110 cm and it uses saw blades of up to 120 mm width.

All Serra's sawmills are equipped with computerized positioning systems that depending on the model have different functions: showing the accuracy of the blade, automatic cutting speed control and fully automatic sawing.

Serra also showed a sawmill for smaller private saw millers, the FE50, for logs with a diameter of up to 50 cm, available in different cutting lengths.

Mobile or stationary or industrial sawmilling plants, each model is custom made and is installed and trained only by trained Serra technicians. Serra also manufactures its own saw blades in its own factory in the Bavaria region of Germany.

Serra Maschinenbau is the first manufacturer of mobile sawmilling technology, and is celebrating its 25 years of worldwide success. (www.serra.de)

Siempelkamp sets eyes on self-optimising plant!

The ContiBooster can increase plant capacity by up to 10%.



Siempelkamp presented its version of the self-optimising wood-based panel plant with Prod-IQ Next, the further development of its proven process control system Prod-IQ.

Panel and board manufacturers using Siempelkamp control technology already benefit from the automatic product change, the flow of data from the ERP system to the plant and back, and cost trending. With the Prod-IQ quality system (SPOC), which is suitable for retrofitting, they already realize online quality prediction.

It means the quality of the board is known as soon as it leaves the press, with no need for elaborate laboratory testing. Siempelkamp goes a step further with Prod-IQ Next. In the self-optimizing plant of the future, customers will only have to specify the product they want to produce, its characteristics and quantity. The rest is fully automated – from the change to the desired product, to online quality control, to the change to the next product on completion of a production order.

The goal of Prod-IQ Next is the further development of the online quality control SPOC into a super-ordinate control loop, which configures the system to optimize costs and simultaneously ensures the desired board properties – without the need for operator intervention. Model-based predictive process control (MPC) is a control technology concept for this task.

This control uses a dynamic model that depends on the input signals of the process to be controlled in order to calculate its future behavior. This enables to calculate the optimum input signals, which lead to optimum output signals.

With hybrid modeling – consisting of SPOC as the statistical element and the analytical, rheologic modeling of mat behavior in the press – the entire pressing process can be simulated. An analytical simulation of what goes on inside the press is performed along with a statistical calculation of the resulting quality.

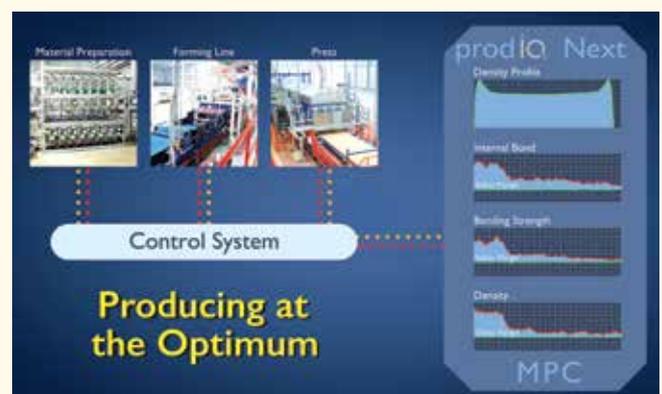
Finally, such a model can be used to determine settings that ensure quality, including the necessary safety reserves, and

simultaneously guarantee production at optimized cost – for example by reducing the blending factor and mat weight, increasing the pressing speed or reducing energy consumption.

It also had on offer a new, simple and cost-effective version of the mat steam pre-heater concept: the ContiBooster. It has been proven in the production of particle board in different thicknesses that the plant capacity can be increased by up to 10%.

Siempelkamp specialists have replaced the intermediate belt in the press in-feed section with a steam-permeable wire-mesh belt. An additional upper belt including cleaning system and belt pre-heater above the mat, which is up to 350 mm thick, ensures the supply of steam and heat from both sides in the new system along with secure and reliable operation.

Siempelkamp is already known for its innovations for reducing costs and saving energy. Among its concepts and market-ready systems are the ContiRoll pressure distribution plates, the energy-efficient Ecodrive electric motor and two-stage gearbox, the Ecoresinator blender system for fibers in particle board production, and surface layer Ecoformer that reduces energy consumption and enables straightforward maintenance.



Customers will only have to specify the product they want; the rest will be fully automated.

Wemhoner scores in surface processing



Small lacquering line for high-gloss UV-lacquering, with Master Control Station 4.0.

Wemhoner Surface Technologies demonstrated two lines for surface processing. Precise high-speed digital printing roll-to-roll in width of 2,400 mm was its main topic.

An economic, small lacquering line in 1,300 mm width for high gloss UV-lacquer was also presented during the show, along with a real module of its lay-up technology implemented in its double-sided EIR-technique, Master Control Station 4.0.

It introduced interactive software and hardware solutions for RIP software, central computers with warehouse management and visualisation. It also unveiled an optimisation software to

be linked with a supervisory control and data acquisition system for 3-D door production with thermal plastic foils.

It also displayed its melamine short-cycle press, the MasterLine lacquering and digital printing lines, and the 3-D Variopress equipment.

It announced the foundation of another plant in Changzhou City (its second plant in China) in June this year, which is scheduled to start production in early 2016. The year 2015 is its 100th year anniversary.

Dieffenbacher thinks different on stock feed

Dieffenbacher presented plant concepts and projects for fast-growing and alternate raw materials such as bamboo, Paulownia, bagasse, straw and recycled wood at Ligna 2015.

In this way, the panel board plant manufacturer was reacting to the constantly growing demand for machine technology designed to process these special raw materials.

Efficiency is vital, and not only for the operators of wood-based panel plants. The forestry sector is also looking for ways to improve the annual cubic-metre-per-hectare growth on new plantations. They differ greatly depending on the wood species and region.

In South America, there is more eucalyptus being planted than pine. Eucalyptus is ready for harvesting after around only 10 years. Another trend is the cultivation of extremely light woods such as Paulownia. This fast-growing and extremely light wood is primarily used for lightweight panels.

In some regions, annual plants can be a cheaper alternative to wood. Environmental policy requirements provide further reasons. One example of such a project is Dieffenbacher's exclusive cooperation with the Chinese chemical company Wanhua.

In this project, boards will be produced using straw that can no longer be burned in the fields after harvest due to government guidelines against pollution.

The use of waste wood has been a topic of interest within the wood-based panels

industry for quite some time. Dieffenbacher displayed reliable and powerful machines in the areas of size reduction, sorting and cleaning.

The Germany-based manufacturer has now gone one step further and is packaging its entire know-how concerning waste wood processing into a new recycling division. The aim is to develop new application areas within and outside of the wood-based panel industry.

A recently developed concept from the new department is the production of wood dust from dry wood chips for combustion in power plants to replace more expensive natural gas. Several panel producers already employ this alternative concept for using recycled wood and internal waste.

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A 'new' window on wood



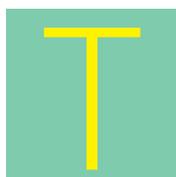
Wooden windows 'breathe' to maintain balance in humidity indoors.



Wood is extremely resistant to deformation, warping and cracking.

In the late 20th century, real-estate developers turned to using uPVC material to beat costs and sold people the idea of hassle-free windows. However, with advances in woodworking and lumber-treating technology, maintaining wooden windows has become significantly easier. The UK arm of Greenpeace, a not-for-profit organisation with a worldwide presence, has made out a case for returning to trusted wooden windows for their unmatched benefits and beauty.

Excerpts:



PVC versus Wood

- uPVC may be cheap, but its life expectancy is 35 years
- During this time it becomes brittle, cracks and loses its glossy finish
- Only 50% of uPVC windows are recycled, the rest are burnt
- Production of uPVC windows emits many harmful chemicals
- Wooden windows typically last over 100 years
- A brush coat of correct paint protects wooden window for years.
- Wooden windows can be easily repaired or parts replaced
- At the end of their life, wooden windows can be used as an environmentally friendly bio-fuel
- Wooden windows are resistant to deformation, warping & cracking
- Wood can be stained in any colour, or varnished
- Wood can be milled into unlimited shapes and profiles
- Wooden windows 'breathe' to maintain humidity balance
- Timber windows reach high performance in security, thermal performance & energy ratings
- Timber is a natural, renewable and sustainable material.

Good design is the key to durability of wooden windows.

The production and disposal of uPVC (unplasticised polyvinyl chloride) leads to the release of highly poisonous chemicals which threaten the environment and human health. Its production involves no less than six of the 15 most hazardous chemicals listed by European governments for priority elimination.

Fifteen European governments, including the UK, have started programmes to eliminate what they consider to be the most serious industrial pollutants: among them dioxins, furans, lead, cadmium, mercury and organic tin compounds. These are used in the production of uPVC, or are released as by-products.

uPVC incineration releases hydrochloric acid, making it necessary to add neutralising salts. This means that each tonne of uPVC burnt can produce more than twice that weight of contaminated waste that must be disposed off in landfills!

Recycling of uPVC windows is not viable: because uPVC degrades when recycled, a product like a window can only contain a small percentage of recycled material.

During their life expectancy, sunlight causes uPVC to go brittle, turn yellow and develop hairline cracks. Window frames contain chemical additives to slow down this process, but they cannot be eliminated entirely. Almost nothing can be done to prevent deterioration of the uPVC itself.



In the event of misuse, deterioration or damage, repair of uPVC windows is difficult, expensive and sometimes impossible.

In the case of wooden windows, good design is the key to their durability. For example, it is important that drained and vented glazing rebates are used to prevent deterioration of the timber and premature failure of glazing unit seals from trapped water. Dual-seals and factory glazing also help maximise the life of glazing units.

The type of preservative treatment used will affect the environmental impact of a window. It would be ideal to avoid the use of preservatives altogether by using FSC-certified hardwood. Good quality, locally grown, durable heartwood such as oak, chestnut or larch, should need no preservative treatment if used in a well designed window.

When preservative treatments are felt to be necessary, the environmental impact can be minimised by using water-borne preservatives instead of solvent-borne formulations. Active ingredients such as lindane, penta chlorophenol, tributyl-tin or other synthetic organic compounds should also be avoided as these hazardous chemicals may be released when the preservative is applied, or when the window is eventually disposed of.

Water-borne preservatives that use less harmful active ingredients, such as borate, are preferable. According to the Green Building Handbook (UK), preservatives based on boron, soda, potash, beeswax or linseed oil are safe and effective when used in conjunction with good design.

Choice of paints or stains on wood will also affect environmental impact. As a general rule of thumb, plant-based finishes are the least harmful while solvent-borne synthetic finishes should be avoided.

(Courtesy: www.greenpeace.org.uk).

How to stay ahead of competition? Create new markets!

A pair of plywood and timber traders in Bangalore dreamt big and are tasting success on the strength of their entrepreneurial spirit. With the burgeoning demand for doors in urban markets, Dinesh Patel and Amrit Patel seized the opportunity to attempt to fill a void through their new venture, Maxon Doors. While Dinesh is the “technology buff”, Amrit is responsible for keeping the factory buzzing with orders to execute. Excerpts from their recent conversation with Dhananjay Sardeshpande:



Dinesh (left) and Amrit Patel at the warehouse of Maxon Doors, Bangalore.

Born into families of saw millers from Gujarat who made Bangalore their home some generations ago, the “Bhai-Bhai” duo of Amrit and Dinesh Patel are from the new-age entrepreneurs who have taken the family business beyond trading and into manufacturing.

Much of their understanding of the industry, woodworking technology and market sense comes from their experiences spanning a decade after they set up Senate Associates, their trading house in plywood and panels in Karnataka’s capital.

Their close and direct interactions with end-consumers, carpenters, architects, builders and interior designers helped them understand the market well and connect with the vast hinterland across

Karnataka, as well as neighbouring Tamil Nadu.

How did Maxon Doors happen?

Amrit: We read an article on door manufacturing in 2008. We realised that there was a huge market in doors waiting to be tapped. Since it is a service-based industry, we at Senate Associates knew that, sooner than later, we had to move into manufacturing.

Dinesh: Although we knew hundreds of customers and carpenters because of our timber and plywood trade, we didn’t want to burn our fingers. In 2010 we began outsourcing door production to some small units on the outskirts of Bangalore under our brand (Maxon Doors).



The biggest of Maxon Doors' three factories located in Bangalore Rural district, Karnataka.

Amrit: Senate Associates already has more than 600 dealers in Bangalore and other districts of Karnataka, and that helped us sell many hundred doors across the state. We even ventured into neighbouring Tamil Nadu.

Dinesh: But, by 2012, we realised there were too many issues with our suppliers: inconsistency in dimensions, sometimes bad quality, delivery schedules going awry, and lack of cost control. That is when we decided to start manufacturing ourselves.

We set up three factories in Bangalore Rural district, with a combined capacity of churning out 10,000 doors per month. Our 15,000-square-foot warehouse in Nagasandra (Bangalore city) always has adequate stocks to meet any contingency.

By doing it ourselves, Maxon Doors could control costs, ensure consistency and quality, and narrow down our delivery schedules to less than a week. We also cater to a larger variety of demands: from solid wood to flush doors and veneer finishes. Not only that, we also conduct a lot of experiments in our factory – many pompously call it R&D! – to constantly improve our products and bring in innovation.

How has the brand progressed?

Amrit: From 2,000 doors per month in 2010, we now sell 9,000 doors per



Door in traditional Burma teak: still a favourite in South India.

month. Our catchment area is all of Karnataka and parts of Tamil Nadu. While PVC membrane doors are a big hit in Tamil Nadu, our customers in

Karnataka prefer moulded skin doors. We also manufacture veneer and laminated doors, along with metal membrane doors, to our customers' specifications.

Educating the market is a big effort. Till a few years ago most of our customers insisted on solid wood doors that would cost upwards of Rs. 30,000 each. We gradually convinced them that panel-based doors are just as strong and resistant to moisture, and are available at half the cost!

Most (60%) of our customers now are individual home owners, not mass housing schemes; but that is changing rapidly in favour of builders of apartment complexes. These builders cannot find or afford skilled door makers any longer. They are realising that with factory-made doors they are assured of dimensional consistency, quality and timely deliveries.

In fact the market is now veering towards high-precision, factory-made pre-hung doors. We are already gearing up to set up a full-fledged door-making line – assured wood & boards supply, processing technology, finger-jointing machines, paint booth, etc. – within the next couple of years.

How does product differentiation happen?

Dinesh: Previous generations of

manufacturers upgraded their products only on demand from customers. These days, one has to be proactive in assessing trends, grasping technology and understanding product development. One has to go beyond the market's needs and innovate; create new markets. This applies not only to products, but also to manufacturing processes and even marketing strategies. But in all this, one has to bear in mind the cost to the end consumer.

What about your competition?

Amrit: You can hardly call it that. In our sphere of influence (Karnataka and Tamil Nadu) there are some small manufacturers that offer doors at low



Membrane door in Rosewood finish.

prices. But customers soon realise that they cannot scale up production, or provide quality or ensure on-time delivery. These factors tilt the scale in favour of Maxon Doors.

What of your raw material and machinery?

Dinesh: Almost all our solid wood (mainly pine and teak) comes from certified plantations abroad, including Canada, so does the infill. The same stands true for our lamination papers (from Germany and Italy) and door skins (mainly Turkey and Thailand). We also import tubular boards when our customers ask for it. Only the particle boards and MDF we buy from Nagpur.

Amrit: Right now much of our work is done manually: we have a quality supervisor and six experts, along with 20-odd others who help them out. Automation is difficult right now because of lack of standardisation. As far as machinery goes, we have made-to-order presses and saws from Indian manufacturers. To these also we have made modifications to meet our requirements. As we scale up production and get into the pre-hung doors segment, we will upgrade to relevant technology and production lines.

What are the typical impediments you encounter in your business?

Amrit: For one, there is no government recognition or support for furniture-making as an industry. There are no designated woodworking clusters or skill development centres in the country. Worse, as a small scale industry, we get power supply for only 3 hours during working hours. We have to depend on captive diesel generation sets, which forces us to raise the price of our products.

Dinesh: There are various taxes that can be tricky. But with the general sales tax (GST), we hope for greater clarity and ease of operations. However, there is no differentiation between wood sourced from forests and certified plantations. Because of this, for the woodworking



Maxon's metal-embedded membrane door.

industry, it is a constant tug-of-war with forest department officials. Where there are clear rules and regulations, there is no compliance by the industry!

What of the future?

Amrit: We see a bright future in "smart" doors manufacturing and we are planning for it. It is not only about better security and fire-proofing, it is about home automation, wireless communication and systems integration.

Dinesh: Yes, we are talking about smart material that can also withstand the manufacturing processes, smart product definition and design, and the technology to come out with such products to create a new, technology-driven market. But the real challenge remains: making it cost-effective for our customers!



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D.S. Doors injects new technology



CNC routers machine 3-D and 2-D designs to save wood wastage and labour by 25%.

D.S. Doors, a Faridabad-based door-maker since 1977, has introduced a new finger jointed pattern technology (FJT) into door manufacturing. It is used in their highly successful range of solid wood, engineered and veneer doors.

It also specialises in doors with wire mesh, ply and wood panels, glass and membranes, sliding and folding, and decorated with carved and inlay work. Wood-based flush doors and skin doors are economical and help save forests for the future generation.

The doors come in different material like solid surface (acrylic based), real wood veneers, leatherite and Arjun wood framing system. It has also diversified into wood framed security glass doors and chowkhats with automatic sliding system in collaboration with German engineers.

D.S. Doors caters to all segments of doors: solid wood door with panels; veneered and engineered wood doors with seasoned wood filling; HDF laminated skin doors with particle board filling; and WPC doors with special wooden textured surface covering.

This FJT has been extended to the manufacture of high-gloss wardrobes and modular kitchen, which are resistant to heat and termite attack. Its team of architects and interior designers have developed space-savvy furniture and wall units for daily home and office use.

According to Mr. D.S. Sharma, founder chairman of D.S. Doors, a fully automatic, state-of-the art door manufacturing plant, with a capacity of 2,000 solid wood doors per day, is under construction in Palwal (National Capital Region). It is expected to be commissioned early in 2016.

Wood security doors and frames with MS rod developed by the DS Doors team.





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Power performance from Leitz



Leitz, the world leader in tooling systems, has put together a 'Power Performance Package' to help window and door producers optimise their processes, which will help them get more out of their machines and tools and lead to better competitiveness.

The package contains innovative tool technologies which bring together processing quality, raw material and energy efficiency as well as operational dynamics. These high performance tools not only make production processes more ecologically friendly and cost-effective, but at the same time guarantee maximum processing quality.

With Leitz patented RipTec pre-cutting, the reject rate is reduced to almost zero, even for difficult timbers. The Leitz Hybrid Technology combines two tooling systems which reduces costs in machining glue joints and abrasive coatings.

With Leitz high-speed cutting tools, the full technical and economic performance potential of machines can be utilised, and small electronic chips enable Leitz's tooling to become intelligent process components with the option of 360° communication.

Another important component is Leitz Engineering, where Leitz provides

The Leitz Power Package, for window and door producers who want more from their production.

customised, efficient solutions for the production of most modern window and door systems. After determining requirements, Leitz designs the optimal process in coordination with machine and software producers.

The eight parts of the Leitz 'Power Package' are the RipTec, Leitz Integral Technology, high-speed cutting, innovative systems, high performance coatings, Leitz Hybrid Technology, Leitz Chip Technology and Leitz Engineering.



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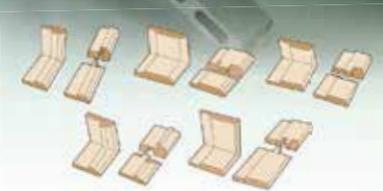
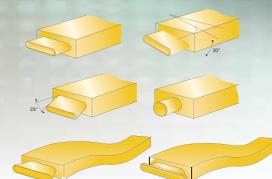
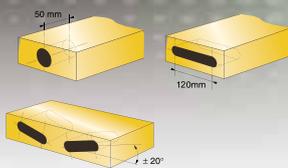
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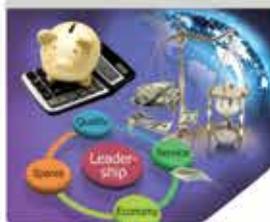


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Talin packs a punch for high security applications

A pioneer and leader in the manufacture of modular workstations, chairs, executive furniture and retail fixtures, Talin has now diversified into the manufacture of doors. International, designer and world class, Talin manufactures a complete range of entry, interior and special function doors.

It also imports and markets doors in collaboration with Marcus Martinez Minguela SA, a global leader in the manufacture of doors, closets and mouldings for over 50 years.

Traditional, classic, contemporary or special purpose, every Talin door is a work of art and craftsmanship. Manufactured to the highest levels of quality, using the finest materials and workmanship, all Talin doors offer unmatched value, beauty and strength for a lifetime.

Talin doors are available in a wide range of designs, styles, materials and finishes. Rigorously tested to exacting international standards, they are engineered to provide exceptional value and a lifetime of performance and great looks.

Strength & Beauty

Designed to be at the centre of life and living, Talin doors are the epitome of strength and beauty. Designed to enrich spaces with style and excellence, functioning as an alive furnishing element and an integral part of the appeal and aura of your environment, Talin doors are built strong to provide security and protection for a lifetime.

Made in India and made for Indian conditions and usage, Talin doors offer unmatched value: in addition to being

Talin has a wide range of wood-based doors to suit various requirements.



available in a wide range of designs, styles, materials and finishes, Talin doors can be custom manufactured to specific needs.

Every Talin door is built to the highest levels of quality and certified for excellence. Manufactured at Talin's state-of-the-art and fully automated plant in Bangalore, every Talin door is the product of the finest imported and Indian raw materials.

According to Mr. Anand Das Joseph, Managing Director of Talin, "The door is the first impression of a home. And for that we want to provide our customers the best in terms of design, style, materials and experiences."

Talin doors are available in Modern (innovative and minimalist), Classic traditional and stylish) and Exclusive (visionary and extravagant) collections. Its Natural Wood collection shows off luxury and timelessness.

Speciality Doors

But the star attraction is the High-Security, Blast- and Bullet-Resistant and Special Purpose collections that are the talk of the town already! The High-Security doors are designed for homes and offices with needs for high degree of

security and safety. Special design, materials and the addition of security hinges, multi-point locks, reinforced laminated cores and high security glazing make these doors perfect for such applications.

In the Special Purpose collection, Talin manufactures fire-rated doors to provide stability and integrity for up to four hours, reduce the spread of fire or smoke beyond the doors and enable safe egress from a building or structure. All Talin fire-rated doors are certified by UL (Underwriter Labs Inc, US) and conform to National Fire Protection Association (NFPA) of US standards.

Talin also manufactures blast- and bullet-resistant metal doors for high security areas like strong rooms, battery rooms and housing of transformers. Also available on special orders are rail-and-style doors, access-exit doors, acoustic doors and those required for exacting scientific research and experiments.

Talin is perhaps the first manufacturer to introduce Intrusion-Resistant doors that redefine safety while ensuring that your home looks beautiful. Made with treated steel at its core and covered with a choice of natural wood or wood grain

textures and finishes to suit your home décor scheme, this new range of doors have inbuilt heavy-duty cross sections and hinges in the body and frame, multi-point high security locking systems with non-duplicating sets of keys.

These doors come fitted with wide-view eye viewers and steel structured frame with weather strip to prevent flow of dust, smoke or fire.

Talin's automated manufacturing plant, state-of-the-art machinery, trained workforce and strict adherence to process and quality systems enables it to offer superior value proposition. Talin already has a lengthening list of multinational and Indian companies, real-estate developers and discerning home owners who have trusted its past record and assurance of quality. (www.talin.co.in).

Talin now has on offer specialised doors for intrusion prevention, fire hazards, high-security applications, and blast- and bullet-resistant products for special purpose areas.



Veneer doors with 'solid' looks



Solid wood panel doors are made of decorative species like teak, walnut, oak, etc. and are very expensive. Moreover, with wide panels have a tendency of shrinkage and expansion even after seasoning in the kiln, resulting in latches getting harder in monsoon and jamming of the doors.

With advancement of technology, Shubh Decor has imparted the look of solid

wood panel door on flush door using veneer of all these decorative species. It has resulted in a better product, which looks and performs better than solid wood panel doors – at half the cost!

Most of decorative species are not only getting more expensive each day but also have become an environmentally sensitive issue. Shubh Decor's veneered doors use almost 1/10 of decorative

forest wood, compared to conventional solid wood doors.

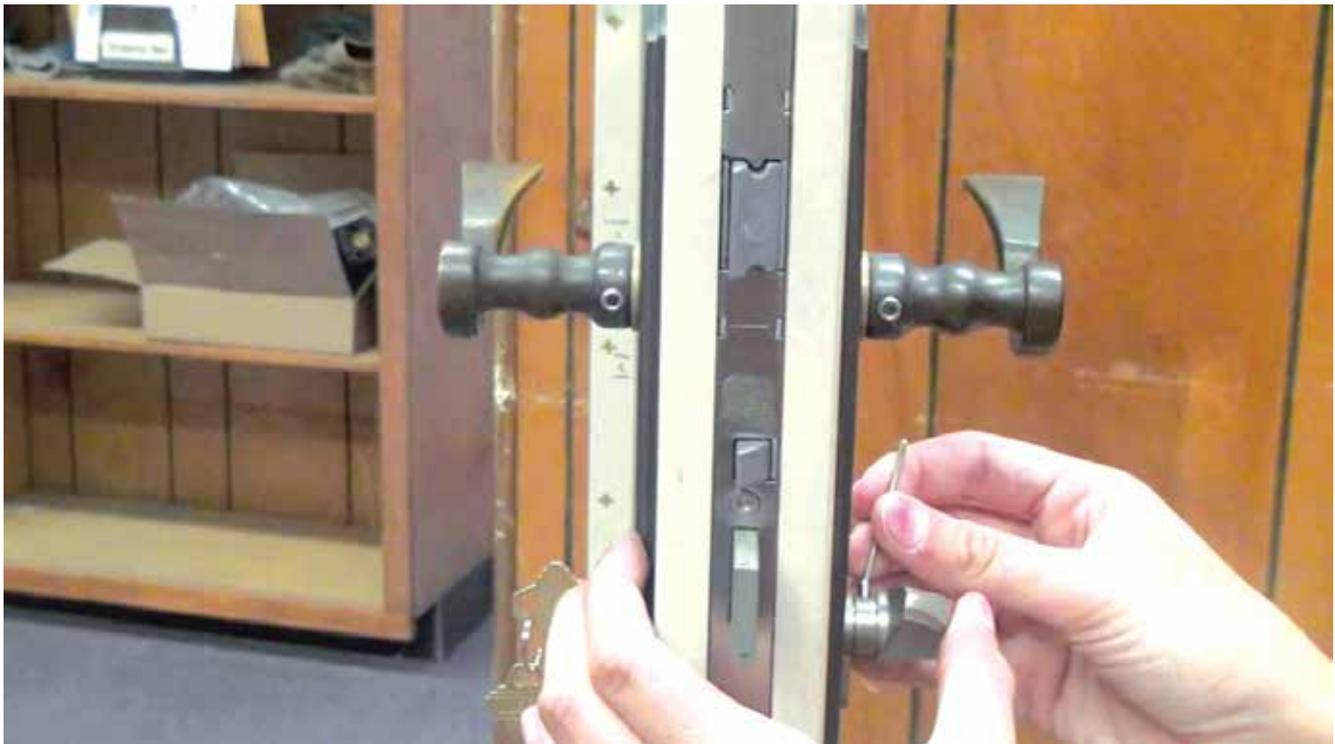
Its doors have 90% farm timber and so are more eco-friendly than conventional solid wood doors. All these flush doors are manufactured in 32 mm thickness. They have seasoned hardwood filling, and are available in natural Burma teak and American walnut veneers.

These veneered flush doors look better, perform better, are eco-friendly and, above all, cost just half of a solid wood door.

Shubh Decor is a Raipur-based (Chhattisgarh) company with 15 years experience in manufacturing and exporting veneers, plywood and decking sheets to the US and countries in the European Union.

It also manufactures 3D designs on MDF to make wave boards and grills. Its major distribution channels are located in New Delhi, Mumbai, Ahmedabad, Kolkata, Bangalore, Hyderabad, Nagpur, Guwahati, Surat, Chandigarh, Indore, Vijaywada, Kanpur and Raipur. You can find more on www.new.shubhdecor.com.

Hafele has a range of mortise locks



Hafele's comprehensive range of mortise and knob locks come with a host of features that extend the Hafele promise of quality. These door locks provide robust security and durability, together with superior aesthetics and contemporary designs. In addition, Hafele offers a complete selection of cylinders and keying options, including latch locks that are compatible with two-way action doors.

Hafele's range of mortise locks feature advanced design concepts for extreme reliability where the latch, the deadbolt and the strike plate are manufactured using high quality stainless steel 304 grade for exceptional resilience. They provide for a wide variety of functions and are available in the most prevalent of finishes.

These mortise locks are suitable for single leaf, rebated or non-rebated

wooden and steel doors, as well as aluminium frame doors and are precisely created for the Euro profile cylinders with master-keying and grand master-keying options.

The specific features and resulting benefits of this range of locks are:

- The fore-end of the mortise locks is made of high quality stainless steel 304 grade, challenging the most stringent corrosive conditions
- The case is been manufactured using a projection welding process, to make secure joints and no welding point on surface; thus increasing the durability and strength
- The locks come with a specific abrasive polish on the surface of the fore-end and strike plate to allow for a clean surface and attractive finish
- The latch and deadbolt are made

from precision casting stainless steel, giving them long-lasting operational efficiency

- Strong deadbolt structure is hard, anti-bore and anti-saw type, providing high security and safety levels
- Specific steel spring is subject to continuous non-destructive testing using online eddy current unit; tested for 5,00,000 cycles
- The lock components come with numerous internal support points and secure rivet joints to prevent damage against strong impacts or lock-case deformation
- The lock sets come with an optimum quality lubricant for high adaptability to cold and hot environment
- The followers for the spindles horizontally incline upwards to 20° to prevent sagging of handles.

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Jai Industries has wide-ranging solutions



*The J-1325(A)
CNC router.*

Jai Industries, which offers the widest range of machines and models in four different budget- and feature-based categories in India, has a host of machines to help in door manufacturing.

The basic CNC router, the J-1325A, is a model that allows greater workability with ergonomically designed control panel for engraving and designing of flush doors and kitchen shutters. It is going high-tech at an affordable cost; thanks to heavy ball screw drive with high accuracy.

The cast steel structure makes Jai's routers more stable, and automatic lubrication makes maintenance much easier. Precision vacuum working table is optional, for vacuumed fixing and sure clamping of the work piece to ensure steadiness during the entire routing operation.

A convenient, separate control panel box allows flexibility and efficiency in machine operating. Digital signal processing is applied here as the controlling system.

A precision system is built-in to carry the CNC design commands. This auto-sliding guide system allows great design flexibility. Jai Industries also provides 5,000 designs in 2-D and 450 designs in 3-D free along with machine.

The vacuum membrane press, which offers vacuum lamination with high quality and high production quantum, is best suited to Flush door and shutter manufacture. It is used for applying a uniform lamination of PVC, decorative papers and veneer till 0.4mm on the top surface and borders on flat and designed work piece having smooth shape.

It works on vacuum abnormality wrapping technology having single/double table. The silicon membrane sheet for veneer application is standard supply with the machine.

It has a centralized control panel for display with digital temperature controllers and adjustable timers for fully automatic cycle. It comes with one set of tray minimiser for optimum usage of work tray along with the machine.

It has a more efficient, stable and long-life high-grade vacuum pump. The special steel work table is proof against high temperature and corrosion, while

*The J-1250 vacuum
membrane press.*



the PVC foil roll holder with stand can hold three different rolls at a time. An additional trolley is optional and can be ordered any time separately.



*The J-3018
Surfo Max-S.*

The Surfo Max-S is the best surfacing, rebating and grooving machine in the range with highest features for the quality conscious. A heavy duty and sturdy machine it combines precision with some of the best features. It has a noise dampening system for quieter operation, the in-feed table is longer than the out-feed table for better accuracy and extra support.

This premium quality three-side moulder can deliver width, thickness and shape in one pass. All spindles are adjustable and their key devices are positioned in front of the machine for convenience. Its easily accessible, user-friendly control panel positioned near the machine in-feed is for convenient and quick operations.



The JJ-3230 three-side moulder.

SPECIAL FOCUS

DOORS & WINDOWS



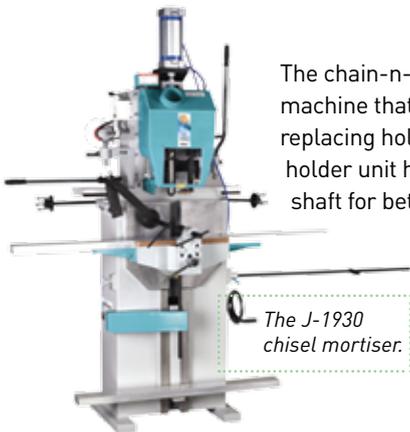
The J-1510(A) Rebato 'Mold.'

This specially designed machine for rebating and moulding in a single operation is best suited for making door frames. It has in-feed and out-feed side supports. The automatic feeding is ideal for mass production, better accuracy and safety. Moreover it leads to an increase in profits by reuse of wood.



The # J-1504(ST) spindle moulder.

This spindle moulder with sliding table is a heavy duty, high quality specially designed machine for mass production of solid wood doors and window frames. Up to 10 HP capacity motors can be fitted (optional) for heavy work.

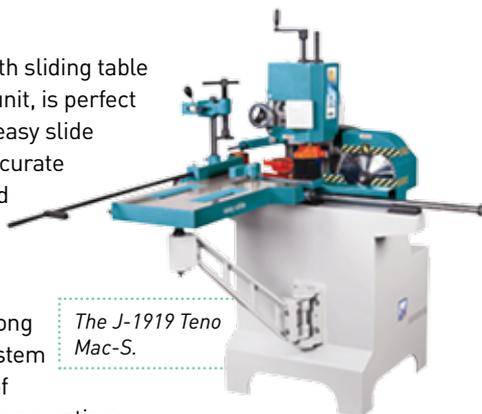


The chain-n-chisel mortiser is a combined machine that allows mortising flexibility by replacing holding units. The chain mortiser holder unit has a support guide for motor shaft for better accuracy and rigidity with chip free mortising. The chisel mortiser holder unit is optional and can be ordered any time separately.

The J-1930 chisel mortiser.

This machine, with sliding table and end cutting unit, is perfect for tenoning. Its easy slide movement for accurate tenoning with end cutting unit results in perfect tenon lengths.

Accurate and strong vice clamping system avoids slippage of work piece during operations. (More on www.jaiindustries.com).



The J-1919 Teno Mac-S.



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Wemhöner Throughfeed Press Lines upgrade wood based panels. Worldwide.

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Wemhöner single- or multi-daylight press systems set standards and leave virtually nothing to be desired in regard to flexibility, speed, reliability and profitability. The Wemhöner Know-how provides the ideal combination of automated concepts for material feed and workpiece transport which results in an optimal harmony of product, production process and capacity.

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More than 57,000 visitors from 143 countries thronged the four-day show.

Changing sign-posts: some old, many new

International trade fair saw a 34% jump in visitors from India

Notwithstanding a nationwide train strike in Germany, Interzum 2015 (Cologne, Germany; 5-8 May) received more than 57,000 visitors from 143 countries, an increase of 8.5% over the previous show in 2013.

A visitor survey revealed that almost 64% of visitors questioned were either sole or joint decision makers in purchasing and procurement.

There were 41,000 visitors from abroad (up 17%), with significant jumps in visitors from China, Italy, UK, Spain, the Netherlands and Poland. There was also a considerable increase (34%) in trade fair guests from India.

According to Ms. Katharina Hamma, Chief Operating Officer of Koelnmesse, the organiser, "The increase in visitors did not just reflect the appeal of the innovations and solutions in furniture and interior design showcased by our exhibitors but also emphasises the importance of Interzum for the industry."

There were a total of 1,561 exhibitors from 57 countries in attendance.



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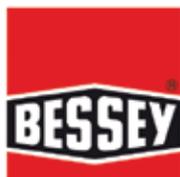
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Resource conservation goes hand-in-hand with technical refinement of materials and recycling processes.



Tattva, a Delhi-based designer fittings group, set shop at Interzum.

and toward more design-orientated, high-quality products which allow for customising.

More and more exhibitors were seen embracing the trend toward comfort and ergonomics because that is coming to defining the industry. 3D printing in production processes for design and

architecture may still seem a long way off for many, but additive production technologies already offer alternatives to conventional production. Especially for the furniture industry and interior design, exciting possibilities are being revealed in this sphere.

Around 70 exhibits were on display, including printers that manufacture products live. A food printer, as the name suggests, produced several delicacies! Objects extending from ceramics through textiles to lamps were shown. These suggest the potential areas of usage and sketch out the advantages of the process chains with additive technologies.

The next Interzum will take place from 16 to 19 May, 2017, in Cologne, Germany. (www.interzum.com).



Manufacturers predicted wood would continue to set trends in furniture design.

Into a handle-less future



Lift systems, doors and pull-outs can be implemented in various designs to suit the application and users' needs.

Extensive surfaces, straight-cut designs and handle-less fronts: these are the latest furniture trends, according to Austrian fittings manufacturer, Blum. Its innovative fittings solutions for wall cabinets and base units guarantee user convenience despite minimalist designs.

At Interzum 2015, Blum offered a wide range of hinge, pull-out and lift systems in various models that can be combined with different motion technologies, with mechanical or electric support systems and single-touch operation.

Blum's Tip-On mechanical opening support system finds application in one-touch opening for handle-less stay lifts, doors and pull-outs. The company's latest motion technology by the name of Tip-On Blumotion combines the mechanical opening support system with tried and tested soft-close Blumotion.

Tip-On Blumotion brings supreme ease of use to handle-less furniture, in kitchens and throughout the home. The innovation is the winner of this year's Red Dot Award for top quality design.

The new and inspiring quality of motion of Tip-On Blumotion is not only available for Legrabox, the elegant box system by Blum, but also for its tried and tested Tandembox programme lines. Even Movento, Blum's runner system for handle-less wooden pull-outs and drawers, can be combined with the latest innovation for easy one-touch opening and soft and effortless closing.

The trigger function of Tip-On Blumotion is guaranteed despite the small front gap. Blum, in fact, offers an optional synchronisation feature to further enlarge the trigger area. Gap alignment is easy thanks to 4-D adjustment.

For supreme user ease the Servo-Drive, the electric motion support system by Blum, lift systems open at a single touch and close again at the press of a switch. The system brings the same user convenience to handle-less drawers and pull-outs, also made of wood.

What is special is that Blum now also offers the electric motion support system for one-off applications. For example, the company has a new Servo-Drive solution for freezers, refrigerators and dishwashers! The electric motion support system can also be used for lift systems and waste pull-outs which are in frequent use. (www.blum.com).



Tip-On Blumotion, an inspiring combination of one-touch opening and soft and effortless closing, with Blumotion.

Towards perfection of surfaces



The innovative and impressive architecture of the Egger exhibition stand at Interzum 2015 offered entirely new views of products, their technical properties, and outlooks on product designs and development.

Wood-based materials manufacturer, Egger, added another dimension to innovation in surfaces with PerfectSense, a new product category representing high-gloss or matt decor boards in premium design using the tried and tested Egger MDF quality.

The mirror finish of PerfectSense Gloss impresses with its exceptional high gloss finish, while PerfectSense Matt feels warm and silky, and also stands out thanks to its no-fingerprint feature.

PerfectSense premium decor boards are much more than a conventional melamine-faced MDF board. Egger developed its own special coating process with UV technology (calendar coating inert), which elevates surfaces obtained via industrial processes onto a visual and tactile level that was previously reserved for a few high-end surfaces.

The innovatively finished surfaces are suitable for high traffic areas and are particularly scratch-resistant and robust. The high stress resistance and strength also provide the industry and craftsmen with security during the treatment and processing of PerfectSense products.

Fabricators have the advantage of being able to use the new high-end surfaces as furniture frontals, and use matching melamine-faced boards in the same décor as carcassing. In addition to the already familiar surface textures, the exact same decors in the premium quality with the new matt and high-gloss PerfectSense surfaces are now also available.

PerfectSense Gloss is characterised by an exceptional high gloss surface and clearly stands out among other high-gloss surfaces. MDF as a homogeneous core material also positively influences these exceptional characteristics.

Warm and silky, this is how the PerfectSense Matt feels, along with its no-fingerprint properties.



PerfectSense Gloss, in this Macassar decor, is a premium category high-gloss design which stands out among other high-gloss surfaces.

With the 2015 Zoom retail collection update in September there are 6 decors available from stock in PerfectSense Gloss and also in the matching decor and material collection from a quantity of 1 in the half-size format. All stock versions have a high-gloss finish on one side. The format 2800 x 2070 x 19 mm ensures a low amount of cutting waste.



The stock range includes six decors: from the bright chilli red to the classic premium white, a beige shade, a cool grey through to black. A wood-grain decor is also included in the PerfectSense Gloss range with Macassar, particularly well suited for high quality interior designs in jewellery shops or luxury hotels.

Matt as the contrast trend to high gloss is currently up and coming in the field of exclusive interior design. It feels warm and silky, with a matching look and feel, thanks to the high quality, innovative finish and the new no-fingerprint properties. The painful topic of constant removal of fingerprints from furniture fronts is now a matter of the past!

There are seven decors available from stock in PerfectSense Matt and the tried and tested Egger MDF board is used as a support material. The format 2800x 2070x 19 mm ensures a low amount of cutting waste in this case as well.

The remarkably genuine wood look and feel of Feelwood laminates follows the trend towards a natural and authentic quality, also on doors.



WOODNEWS

WoodNews thanks the various companies that have submitted information. For any editorial submissions, please contact Mr. Dhananjay Sardeshpande, Chief Editor, at ghananjay@pdatrademedia.com. The information published in this, *Notes and News*, *Events Preview* and *Events Review* sections is as per the details furnished by the respective manufacturer / distributor. It does not reflect the views of WoodNews or of the management of PDA Trade Media.



Focusing on the trendsetting topics of minimalism, segmentation and individualisation has resulted in outstanding solutions like the Nova ProScala (Extreme Left), Tavinea 91 (Left), and Tiomos M0 (Bottom). They also open up completely new styling and differentiation options for designers.



Futuristic, functional solutions for stylish furniture

Focusing on the trendsetting topics of minimalism, segmentation and individualisation Grass has come out with Nova ProScala, Tiomos and Tavinea, outstanding functional solutions that perfectly augment its previous portfolio.

Grass product developers know exactly what characterises furniture making of the future. Driven, as always, by a passion and a desire to provide unique comfort and design for furniture, this successful partner to the furniture industry develops solutions that set new standards in lifestyle trends.

Its designer drawer, Vionaro, continued to be the centrepiece of the company's award-winning and traditionally outstanding trade fair presentation.

Nova ProScala presents a new highlight in the double-wall drawer system sector, once more proving that Grass' successful double-wall drawer systems not only set a high standard with regard to functionality, comfort and quality, but have also arrived in the future when it comes to design.

The modular comprehensive drawer system provides a harmoniously coordinated range and creates completely new styling and differentiation options. These include the drawer solution, a flush-fitting railing

version, a high drawer side of 186 mm and a unique glass panel version.

The generously proportioned glass panel is an absolute world first: to expand the scope for creative ideas to a maximum, Grass developers have reduced the space used to house the technical components to the minimum conceivable height of 41 mm.

Combined with designer panels in solid wood that can be subsequently attached to the drawer side, this is a unique brand product that complies exactly with foreseeable trends towards understated styling and individualisation.

Grass responded to the need for hinges to suit particularly slim furniture doors with ideal product solutions. Since its launch in 2013, Grass' Tiomos Mirro and M9 for glass and mirror doors, the four-sided mitre application has been providing high-tech functionality in demanding door applications in living rooms and bathrooms.

This year the extension of this product family, the Tiomos M0, proved ideal for very thin and heavy materials such as stone panels, Corian or aluminium. It is very easy to install and has a simple screw connection with no need for a cup hole, enabling the use of material thicknesses of 6 to 10 mm.

The tool-free damper setting ensures smooth closing, irrespective of the door size and weight. With its perfect movement, permanent stability is guaranteed in any position.

The Tavinea 91 is able to create a wide variety of options with only a few standard elements – focusing on perfect functionality without neglecting style. The puristic principle is also evident in this product, in which the number 91 stands for the calculated ideal distance (in mm) between the individual organising elements.

With either a horizontal, vertical or diagonal arrangement, Tavinea 91 turns any drawer into a small, individual work of art. The diagonal organisational structure at an angle of 45° not only looks particularly stylish, it also provides the optimum ergonomic conditions for removing stored articles. The required storage space can be proportioned exactly with versatile inserts.

Grass' Vionaro, the state-of-the-art drawer system, saw further product development in the concealed slide, 13-mm drawer side that won the coveted Red Dot Award in 2014. Grass presented the full range this year, which has been extended by a number of versions since its launch two years ago.

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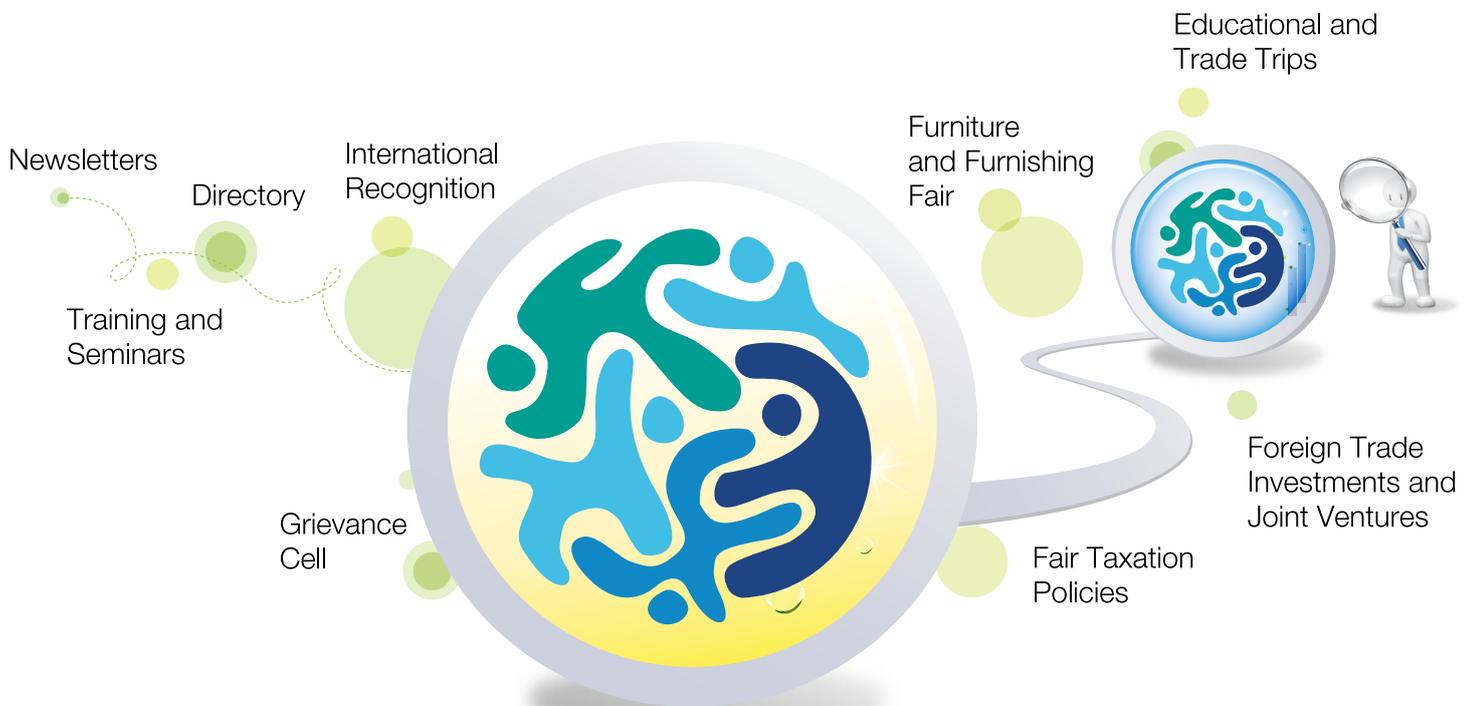


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WOODNEWS



Smooth sliding with Ritma Cube

Harn is an emerging drawer runner system brand from Malaysia, making its presence for the ninth consecutive year at Interzum, the world's largest furniture and interior finishing trade fair.

The highlight of Harn's showcase this year was the new soft-close drawer system, Ritma Cube, which is based on roller bearing drawer runner system.

The matured and proven technology of roller bearing drawer system from Harn provides exceptionally smooth sliding action. Ritma Cube focuses on the functionality and presentation of the drawer. The luxurious drawer system offers modern and clean lines with efficient space utilisation.

The proven Sylent soft-close mechanism ensures a perfect and silent close every time. The I-channel design with nests of roller bearings

offers high drawer stability when fully loaded. Sliding action performance has been further enhanced with new fabrication process for channel profiles for a smoother and quieter operation than before.

Ritma Cube is available in 35-kg and 60-kg load rating. The range includes drawers in three heights. Harn drawer runners are manufactured to meet and exceed customers' requirements. It has an extensive quality management system in place and its drawer runner systems are submitted for tests to major certification standards such as LGA and FIRA to ensure it meets and exceeds the required industry standards.

Standard Drawer S

These drawers with 83-mm steel side and load capacity of 35 kg are quickly assembled. They come with roller bearing concealed runners and full extension with Synchro control. The drawer system features flexible 2-D front adjustment with Sylent integrated cushioning system and integrated lateral stabilizer.

Technical Profile		
Drawer Length	Cabinet Profile Left / Right-Galvanised	Drawer Side Left / Right
	Left / Right to be ordered separately	
270 mm	TM13.27.GI	TD23.27.XX
300 mm	TM13.30.GI	TD23.30.XX
350 mm	TM13.35.GI	TD23.35.XX
400 mm	TM13.40.GI	TD23.40.XX
450 mm	TM13.45.GI	TD23.45.XX
500 mm	TM13.50.GI	TD23.50.XX
550 mm	TM13.55.GI	TD23.55.XX
Cover Cap-Harn logo	2X	RBC.62230-L1.XX
Front Fixing Bracket Left / Right		
Screw-on	2X	RBF.21130.GI
Press-in	2X	RBF.22130.GI
Expansion	2X	RBF.23130.GI
Rear Fixing Bracket Left / Right – Left / Right to be ordered separately		
RBR.72330.XX		

Divider Panel			
Cabinet Width (16-mm side panel)	Divider Panel	Divider Panel Connector Left / Right	Lateral Divider
400 mm	RPD.281.XX	RPC.6100N.XX	RLD.6600.XX
450 mm	RPD.331.XX		
500 mm	RPD.381.XX		
550 mm	RPD.431.XX		
600 mm	RPD.481.XX		
900 mm	RPD.781.XX		
1000 mm	RPD.881.XX		
1200 mm	RPD.1081.XX		

Standard Drawer Side Extend HS			
This system has flexible 3-D front adjustment with other features same as Standard Drawer S.			
Drawer Length	Cabinet Profile Left / Right – Galvanised	Drawer Side Left / Right	Railing Set Left / Right
		Left / Right to be ordered separately	
		Inclusive of Screw-on and expansion railing adaptor	
350 mm	TM13.35.GI	TD23.35.XX	RRA2.302.XX
400 mm	TM13.40.GI	TD23.40.XX	RRA2.352.XX
450 mm	TM13.45.GI	TD23.45.XX	RRA2.402.XX
500 mm	TM13.50.GI	TD23.50.XX	RRA2.452.XX
550 mm	TM13.55.GI	TD23.55.XX	RRA2.502.XX
Cover Cap-Harn logo	2X	RBC.62230-L1.XX	
Front Fixing Bracket Left / Right			
Screw-on	2X	RBF.21130.GI	
Press-in	2X	RBF.22130.GI	
Expansion	2X	RBF.23130.GI	
Rear Fixing Bracket Left / Right – Left / Right to be ordered separately			
RBR.73330.XX			
Side Extend Left / Right			
Drawer Length	Double-wall		
350 mm	RSE2-HD.323.XX		
400 mm	RSE2-HD.373.XX		
450 mm	RSE2-HD.423.XX		
500 mm	RSE2-HD.473.XX		
550 mm	RSE2-HD.523.XX		

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Intelligent fittings make trends marketable

Besides the trends in surface finish, three other trends are currently dominating the design of furniture: narrow reveals, handle-less fronts and quiet, convenient functions.

At Interzum 2015, Hettich presented fittings that provide the perfect, cost-effective key to turning these trends into reality for all market segments.

The new Actro 5D runner system from Hettich perfectly pampers the senses: visually, acoustically and to the touch. Actro 5D permits adjust reveal alignment to the accuracy of 1/10th of a millimetre!

The drawer's exceptionally firm fit on the runner, as well as the high level of vertical and horizontal stability, permit the narrowest of reveals. With Actro 5D, drawer running action is noticeably quiet, smooth and without transitions to give a feel of exquisite quality.

The new AvanTech drawer system in high quality aluminium provides purist design behind the front panel.

The integrated Silent System closes them gently too. Actro 5D is optionally available with the push-to-open silent soft opening function. Designed for loads of up to 80 kg, the runner permits the construction of large furniture when drawers are laden in compliance with standards.

The Actro 5D runner system opens up all sorts of differentiation options while keeping production lean, because the same runner is used for wooden drawers and the new AvanTech drawer system.

The new AvanTech drawer system in high quality aluminium takes purist furniture design behind the front panel. Sleek, with precision edges and without cover caps or holes in the drawer side profile, the new system from Hettich makes no compromises when it comes to design.

With the new Actro 5D runner system, reveal alignment can be adjusted to the accuracy of one-tenth of a millimetre.



With its clear, sharp contours, numerous colour options, versatile side elements and attractive interior organisation, InnoTech Atira provides the perfect mix for greater individuality.

AvanTech also captivates with its quiet, quality sounding running action as well as its noticeably firm fit on the new Actro 5D runner. Actro 5D permits outstanding front panel alignment with the narrowest of reveals which can be adjusted to the accuracy of 1/10th of a millimetre.

The new InnoTech Atira drawer system from Hettich combines attractive options for differentiating with high cost efficiency. Clear, sharp contours, numerous colour options and a wide range of side elements complemented by attractive interior organisation create the perfect mix for greater individuality.

InnoTech Atira follows an economical platform concept based on a single drawer side profile and belongs to the InnoTech range.



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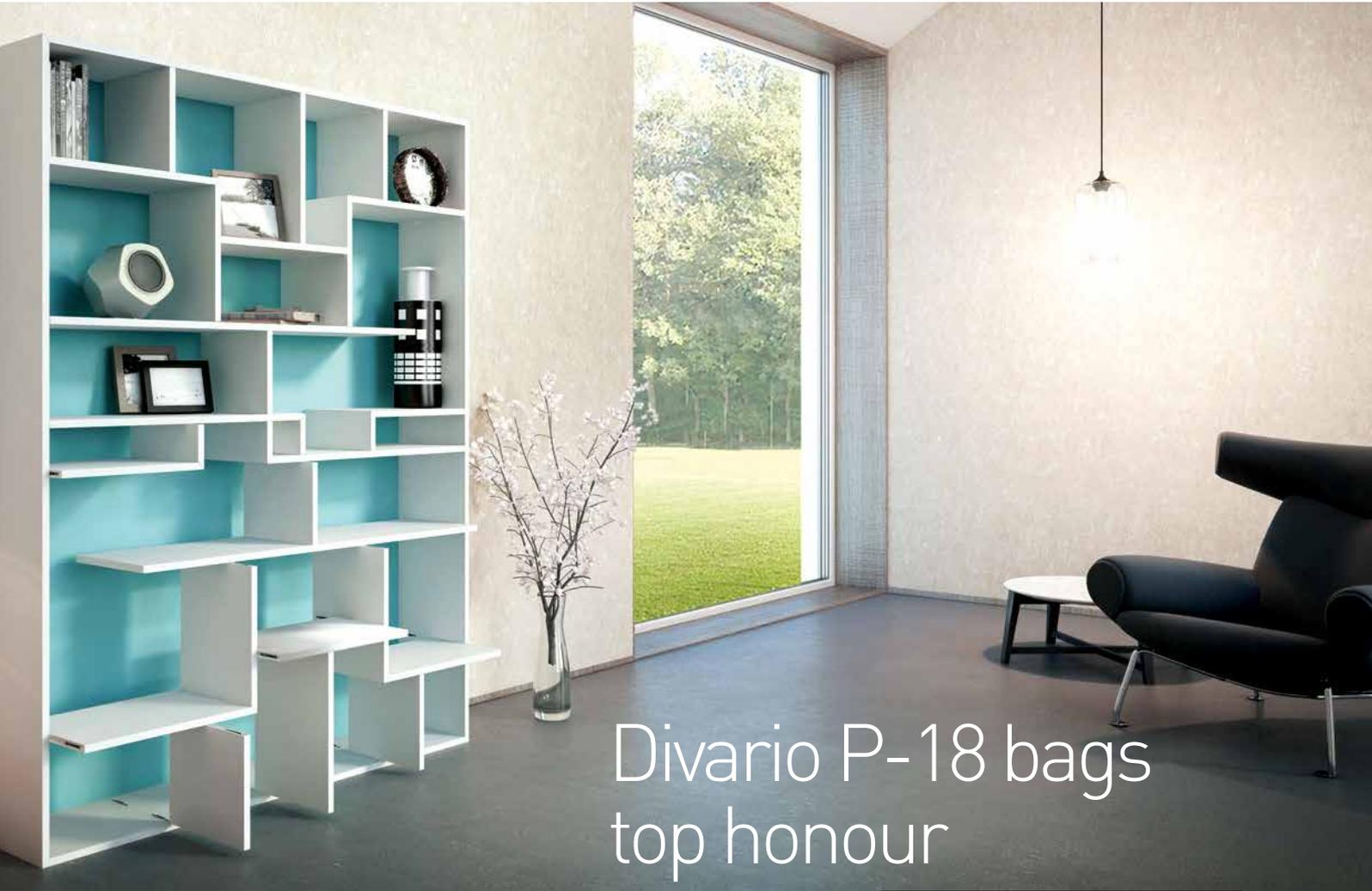


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Divario P-18 bags top honour

Lamello AG from Bubendorf, Switzerland, was awarded the coveted Interzum award for "Intelligent Material & Design", for the second time since 2013, with its new P-System connecting fitting, 'Divario'.

The latest P-System connecting fitting, Divario P-18, offers completely invisible connections that meet the highest quality standards and rounds off the P-System family with a new function.

With the Divario shelves or separation walls can be inserted into pre-assembled structures. Additionally, the Divario P-18 also clamps the components during insertion, creating clean tight joints.

The clamping action only occurs at certain points, rather than across the entire insertion length, making the components easier to insert. Due to the strong connection between the work pieces, the joint is able to carry high tensile forces.

With this new fitting the user has greater flexibility in design without having to forgo stability. Clamping aids and adhesive are not required to insert the components. As a result, the connector makes it possible to assemble the components at the most cost-effective stage in the chain, whether at production, storage, transportation or assembly.

The connector can be fully or only partially fitted on site. Moreover, the fitting is detachable for transportation.

The P-System groove for the fitting can either be created using CNC technology or very simply by hand using the Zeta P2 power tool from Lamello. (www.lamello.com).

Lamello's latest P-System connecting fitting offers completely invisible connections; the joint is able to carry high tensile forces; the groove can be created with CNC technology or by hand; and the connector can be fully or only partially fitted on site.





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MADE IN SPAIN

Furniture industry on growth curve

'Sourcing Forum' with top e-retailers will maximise networking



Strong indications of wider and solid interest in the woodworking and furniture industry in India, in particular Western India, have come to the fore with MumbaiWood 2015 getting overwhelming support.

According to the Central Statistics Office of the Ministry of Statistics and Programme Implementation, the industry group 'Furniture Manufacturing' showed the highest positive growth of 34% for April-March 2015, as compared to the same period in 2014.

The wood-based furniture retail market is ranked the 14th largest in the world, estimated at \$15 billion, and is expected to see multifold growth in the near future.

MumbaiWood is Western India's only trade show for machinery, technologies, tools, fittings, accessories and raw materials for furniture production and woodworking.

It has also become an ideal business-to-business platform for the industry's decision-makers to explore an impressive portfolio of latest technology and innovation under one roof.

The second edition of MumbaiWood takes place at the Bombay Convention & Exhibition Centre (BCEC), in Goregaon East, Mumbai, from October 1 to 3 this year.

Mr. SivaKumar V, General Manager of PDA Trade Fairs, said: "Exhibitors are very enthusiastic and confident about getting more business from the region. There is a strong resurgence in the woodworking industry and this is reflected in terms of investments and developments. We are three months from the show and have already sold more space than the 2013 edition."

The show is a vital link connecting manufacturers, suppliers and buyers while showcasing the best of the industry's machines, solutions and services. "Several exhibitors have increased their space by 50% from the inaugural edition of MumbaiWood," he said.

A sizable number of visitors have already registered online (www.mumbaiwood.com) from cities like Ahmedabad, Amravati, Ajmer, Aurangabad, Ballia, Bikaner, Bhiwandi, Bundi, Chennai, Cochin, Coimbatore, Goa, Gujranwala, Hyderabad, Jaipur, Jodhpur, Kutch, Karwar, Kolhapur, Kolkata, Lalpur, Latur, Melukavumattom, Nagpur, Nanded, Nashik, Navsari, New Delhi, Panchkula, Parbhani, Pokhara, Pudukottai, Pushkar, Pune, Raipur, Ranthambore, Sariska, Saharanpur, Sangli, Shahada, Shrirampur, Solapur, Thane, Udaipur and Vapi, the organiser said.

About 225 exhibitors and 8,000 visitors are expected to attend

the 2015 edition. On its debut, MumbaiWood 2013 attracted 160 exhibitors and more than 5,700 visitors.

Sourcing Forum

One of the highlights of the event is a 'Sourcing Forum', which is designed for furniture and kitchen manufacturers to meet and engage on a one-on-one basis with India's leading e-retailers. This will maximise the networking experience at MumbaiWood.

Although online retailing of furniture accounts for a mere Rs. 750 crore now, it is growing rapidly and expected to be worth



twice as much in the next couple of years. It has revolutionised the industry, creating new, direct-to-home avenues, thereby opening up huge business opportunities for existing manufacturers and new entrepreneurs.

Consumers in both small towns and metros are choosing to buy furniture and furnishings online, not only for the discounts but also for the wider choice and after-sales service.

At the MumbaiWood 2015 Sourcing Forum, India's leading furniture e-retailers – among them Ebay, Fabfurnish, Flipkart, Furlenco, Homelane, Pepperfry, Snapdeal, Stitchwood and Urbanladder – will get an opportunity to explain their needs and processes, meet and understand furniture making, and discuss business opportunities and ventures with manufacturers.

Although entry is free, furniture makers from Gujarat, Rajasthan, Madhya Pradesh, Maharashtra and Goa who wish to participate in the Sourcing Forum will have to pre-register with WoodNews (binesh@pdatrademedia).

Based on these registrations, and on a first-come-first-served basis, WoodNews will conduct a match-making process to arrange one-to-one meetings with retailers.

Booking opens for IndiaWood 2016



Plans for booking of exhibition space in IndiaWood 2016, the country's premier woodworking trade fair, have opened. The 9th edition of the bi-annual event will take place at the Bangalore International Exhibition Centre (BIEC) from 25 to 29 February next year.

More than 650 companies, representing a vast array of furniture production technologies, woodworking machinery, tools, fittings, accessories, raw materials and products are expected to participate.

More than 40,000 visitors from all sectors of the furniture and woodworking industries in India and overseas will attend IndiaWood, which will also feature a 'Sourcing Forum' to connect manufacturers with e-retailing giants, educational workshops, discussion groups and networking events.

The visitor profile of IndiaWood includes furniture manufacturers, saw millers, plywood and particle board manufacturers, craftsmen, interior decorators, architects and builders, manufacturers of wood-based articles, experts from research institutes, forestry officials, timber merchants and importers, and manufacturers, dealers and distributors of furniture hardware and fittings, from India and abroad.

In its previous edition in 2014, more than 580 companies from 24 countries presented their exhibits on 38,000 square metres of space. More than 32,000 visitors from 38 countries and 278 cities from 27 states in India participated in it.

As in previous years, IndiaWood 2016 is supported by Eumabois, the European Federation of Woodworking Machinery Manufacturers. It has also been endorsed by trade and industry associations in India such as the Export Promotion Council for Handicrafts (EPCH), Indian Plywood Industries Research and Training (IPIRTI), Indian Laminated Manufacturer's Association (ILMA) and Association of Furniture Manufacturers & Traders (AFMT).

For details, contact Mr. Sivakumar V, General Manager, Trade Fairs, on +91-9036900075, or email shiva@pdatradefairs.com.

American cherry makes comeback in Milan

3,084 pieces connected by 1,008 joints, 528 trays: all assembled without nails, screws or glue!





A candy-store concept for serving free savory biscuits from a local bistro in Milano, Italy, brought together architects, furniture manufacturers and the American Hardwood Export Council (AHEC) to build the structure, named 'Rotunda Serotina'.

Constructed entirely of American cherry (Prunus serotina), the installation was a massive success at the Wallpaper (design magazine) arcade over the course of five days (April 14-18). The tall columns of shelves were arranged in a cylindrical shape, so that a single ladder could slide around inside the structure to scale every shelf.



Each shelf in the Rotunda held rows of cherry wood snack trays that visitors could take home as limited edition samples from the exhibit. All 526 trays were snapped up by enthusiastic visitors in under 3 hours.

At over 3.7 metres in diameter and the same in height, this was not really a piece of furniture but a substantial yet lightweight structure. With this in mind, AHEC turned to engineers Arup, central

to a number of previous AHEC projects, including the 'Timber Wave' and 'Endless Stair', to carry out a structural appraisal and prototype tests, in order to inform the construction.

In total 3,084 separate pieces were connected by 1,008 joints to make up the 'skeleton' of the Rotunda, together with 528 trays for the surface layer, all assembled without the use of nails, screws or glue!

"It is a wonderful piece of cabinet making and a tribute to the skills of our craftsmen who have used their fine techniques on such a grand scale," explained Mr. Sean Sutcliffe, co-founder of furniture-maker Benchmark.

"Cherry wood, from a craftsman's point of view, works beautifully and finishes to a gorgeous silky texture. As a fruit wood, it has been prized through history and should be prized now. It has become a victim of fashion, which the forestry industry can ill afford given its 100-year planting and cropping plan," he added.

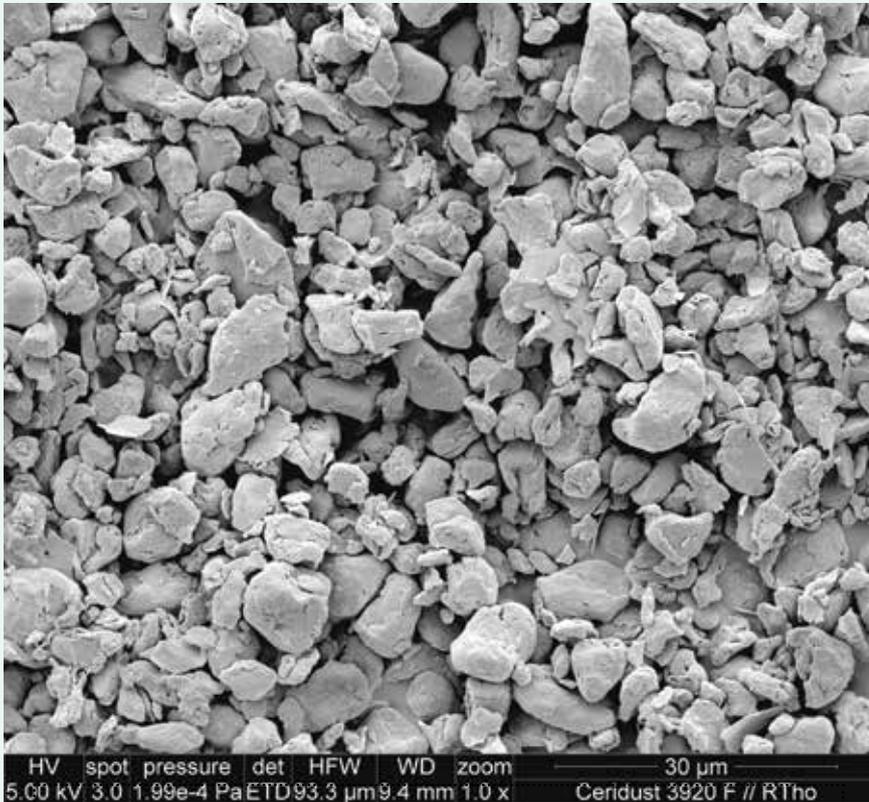
Architects Kolman Boye and Benchmark, who in this particular project found inspiration in skeletal structures: they liken the structure to a set of "bones" and the serving trays as "skin".

The emergence of Prunus serotina was a revelation. "The contemporary porous appearance of the wood fit in beautifully with the current vogue for raw, rugged timber," said Mr. Roderick Wiles, AHEC Director for Africa, West & South Asia and Oceania. "Our focus on cherry at Milan's Salone del Mobile marks a turning point and a fresh chapter for this important hardwood."

There are already indications that furniture designers are looking at cherry wood again as a material of choice, which hopefully will lead to it becoming architecturally fashionable in the near future. Given that cherry turns well on a lathe and also steam-bends with ease, Wiles is positive that this sustainable and versatile wood will make a comeback.



Revolutionary bio-based additives for wood coatings



Microscopic picture of micronized wax powder 30µm.

Clariant, the Switzerland-based world leader in specialty chemicals, has introduced innovative solutions for wood coatings based on renewable resources, that can protect effectively against surface damages and meet the demand for more sustainable coating systems.

Ceridust 8090-TP and the latest innovation, Ceridust 8091-TP, which were featured for the first time at the European Coatings Show 2015, are based on polysaccharide from renewable sources not in conflict with food.

They carry Clariant's EcoTain label because of their outstanding sustainability profile and excellent performance. The EcoTain label identifies Clariant's flagship products and solutions that offer outstanding sustainability advantages and exceed market standards.

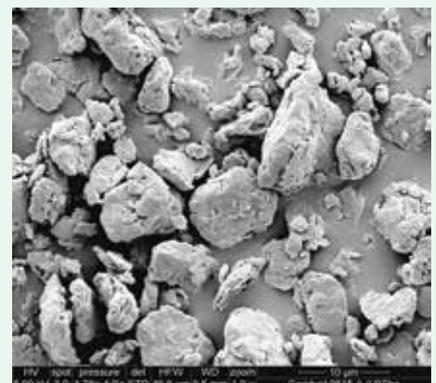
Both Ceridust solutions offer wood coating producers a step-change in performance from a bio-based wood coating additive. In addition Ceridust outperforms in terms of scratch

resistance and higher coefficient of friction, compared to standard waxes.

Ceridust solutions are offered in different particle size distributions to provide a variety of surface properties, from a silky touch to natural wooden haptic effect.

Ceridust 8090-TP, the coarser version (30µm) of this additive for wood coatings, creates a protected and smooth surface with the pleasant feel of untreated wood. The micronized polymer increases coefficient of friction in combination with outstanding scratch resistance performance in water-based formulations.

Ceridust 8091-TP, the fine grind (8µm) of the renewable based micronized polymer, combines smoothness with very high scratch resistance. The high matting efficiency, together with these properties, enables the manufacturer to formulate more sustainable coatings with top quality. (www.clariant.com).



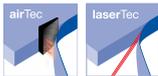
Microscopic picture of micronized wax powder 8 µm.




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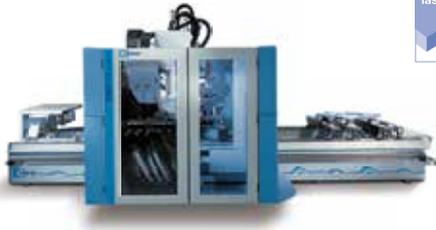
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Decora launches Palimero hi-gloss panels

High-gloss finishes entered the realm of kitchen cabinetry several years ago through top European design houses. Since then the popularity of the look has increased, and high-gloss is becoming more prominent in everything from

kitchens and baths, to closets and furniture.

Keeping that in mind Decora is coming up with its new range, Polimero ultra-high-gloss panels. The Polimero collection applies state-of-the-art PUR

adhesive technology to the very latest generation of polymer decorative surfaces, offering stunning and elegant interior design solutions.

Polimero high-gloss boards are manufactured at Decora's modern facility, meeting stringent internationally quality standards and will suit any residential or commercial project where a ripple-free, easy-to-maintain high-gloss finish is desired.

These panels are resistant to wear, impact and scratches, reflect the naturalness of wood and enrich interiors with a variety of colours and a mirror-like gloss.

Polimero panels are used in furniture production as an example of stylishness and quality, and have started a whole new era in the sector with a technology that maintains its glossy appearance for a long time.

This exciting new range offers professional interior designers fresh and imaginative decor combinations, including vibrant high-gloss and matt solid colours, high-gloss modern wood grains and unique textures like leather and linen for an outstanding visual effect.

Pallmann develops bio-refinery using timber waste

Pallmann Group, one of the world's largest manufacturers of innovative size reduction technology, is joining forces with Standard Bio, an expert in novel biomass conversion technologies, to develop a new bio-refinery concept that will use low-value organic waste as a resource for clean energy, natural fertilizers and animal protein.

The concept is based around the

conversion of renewable resources — in the first case trees from cultivated forests, although it can also be applied to other types of biomass — into solid briquettes for energy generation, as well as natural oil.

At its heart is a patented high-pressure wood press and drying machine developed by Pallmann and Standard Bio, capable of producing 500 cubic



Pallmann's high-pressure wood press and drying machine (patent pending) which can produce the relevant carbon substrate for complimentary soil regeneration.

metres of compressed wood per day, along with 8,000 litres of natural oil.

Pallmann will develop and build various key pieces of equipment to reduce the dried wood to particulate sizes that can

then be converted into briquettes, either by mixing dried wood chips with a small amount of tree oil and then compacting it to form bio-briquettes (also known as HerbBalls) or by pyrolysing the sawdust and then forming charcoal briquettes.

Some of the output can also be combined with other natural resources rich in nitrogen to produce fertilizer and animal feed. The two companies recently signed a technical and sales cooperation agreement, under which they first plan to set up a demonstration plant in an area of forest in Norway that will use wood surplus to the requirement of timber processing operations in the region who produce materials for the building and construction industry.

Standard Bio already operates a pilot

press that can squeeze water and natural oils out of wood before it is reduced to chips. This eliminates the need to expend energy on drying wet chips, and also provides a valuable resource in the form of tree oil that can be used as a feedstock in various other processes.

Standard Bio is a small company set up in 2014 as a spin-off from AgroPlas AS in Oslo, Norway. Using proprietary technology, Agroplas delivers innovative solutions that improve the efficiency of existing production processes and create new value streams from waste. Standard Bio's aim is to make biomass a competitive raw material for bio-refining into proteins, chemicals, materials, fuels and energy.

The demonstration plant, soon to be established in a forest around 100 km south-west of Oslo in Norway, will be used to prove the Bio Standard process for creating a new renewable carbon feedstock for coal-fired utilities, for organic soil improvement (vermi-compost) — and for the production of protein.

Vermi-compost is a highly valuable completely natural commodity that has several advantages over traditional fertilizer, particularly in arid areas or in localities where soil erosion and soil pollution are problems.

It is the result of worms creating a heterogeneous mixture of decomposing vegetable or food waste, bedding materials, and worm casts.

Schmalz offers alternative to original replacement blocks



The vacuum blocks from Schmalz are extremely robust, ensuring reliable work piece handling.

Schmalz has developed new vacuum blocks to use with CNC wood-machining centres that represent a genuine alternative to original replacement

blocks for a number of reasons: Not only are they extremely robust and able to hold the work piece securely in the correct position, they also offer excellent

value for money.

The new vacuum blocks VCBL-B for console systems from Biesse are compatible with the original blocks and are just as easy to fix in the machine's block mounting. Instead of having to pay for the costly replacement of the entire vacuum block in the event of collision, wear or other damage, this innovation from Schmalz means it is possible to simply replace the suction plates.

In conventional systems, the entire vacuum block has to be replaced. The solution from Schmalz reduces the cost of spare parts, and means the machines are ready for operation after only a short interruption.

The housing for the vacuum block VCBL-B is made from extremely durable plastic to provide optimum stability. This enables the vacuum block to hold the work piece securely in the correct position, even when high forces are at play – a further important benefit in the timber industry where the work pieces

being handled are often very large and heavy.

The new vacuum blocks from Schmalz thus facilitate reliable processing of all kinds of work pieces within very tight tolerances.

The suction plate features a special contour with a flexible sealing lip. This enables optimum adjustment to the work piece surface and ensures effective vacuum distribution. The fitting process

is simple: the blocks are inserted in the required position in the standard mounting from Biesse.

Clamping straps on the vacuum block ring ensure they are securely fixed in the suction block mounting. The vacuum block is also equipped with strong magnets for additional prefixing in the mounting.

The smooth-running, plastic-sensing valve activates the vacuum automatically

and gently for the work piece. Unused vacuum blocks can remain in the mounting.

The vacuum blocks VCBL-B are available in heights of 29 and 48 mm for 3- and 4-axes machines, and 74 mm for 5-axes machines. They come in sizes 140x130 mm, 125x75 mm, 120x50 mm and 130x30 mm. Depending on the version, can be up to 30% cheaper than comparable products on the market.

OpuLux is top draw in hi-gloss, scratch-proof panels



The reflective index of OpuLux super-high-gloss panels is identical to those of mirrors.

Keeping in mind the feedback from its customers, Prestige Interio Concepts understood that Indian furniture use demanded scratch-proof, super-high-gloss surfaces. So it launched the first made-in-India OpuLux super-high-gloss panels in 2012, using flat lamination technology and hotmelt PUR adhesive.

This was followed by work on the next generation of high-gloss panels, the OpuLux scratch-proof panels, which have now been made and launched in India. These panels are manufactured using an advanced engineered

thermoplastic laminate, Senosan 1800 TopX, sourced from Austria.

A revolutionary technology in materials science is used to make Senosan 1800 TopX scratch-proof high-gloss surfaces. The top of the laminate surface is coated with a proprietary lacquer developed by Senoplast. This lacquer gives the surface a hardness of 1.1N, equivalent to 6H pencil hardness, making it virtually scratch-proof.

With a gloss level of 94% GLE, at 60 degree, OpuLux scratch-proof panels

are like mirrors! They also have tremendous chemical resistance, as well as high tolerance to wet and dry heat. There is no perceptible colour difference on the surface, even after being exposed to UV light for extended periods of time.

OpuLux scratch-proof boards are manufactured in a state-of-the-art facility using flat lamination technology, where Senosan 1800TopX polymer laminates are bonded on the core material using the best quality German hotmelt PUR adhesives.



The outstanding contrast between OpuLux scratch-proof (left) and ordinary acrylic panels is self-evident.

PUR adhesive provides heat- and water-proof bonding. A good quality high pressure laminate (HPL) is used as a balancer. Even the HPL is bonded using a hotmelt PUR.

Wide Choice

OpuLux scratch-proof panels are available in a choice of core materials, among them plywood, MDF, particle board, wood plastic composite, even PVC foam board. They are available in a wide range of 14 solid and metallic colours. Color consistency between batches is a unique feature of OpuLux panels. Because of this unique feature, which is

not possible in other type of surface, complete peace of mind is available to architects and designers!

What distinguishes OpuLux scratch-proof panels from the rest of the products available globally (nothing of this type is manufactured in India) is the attention to detail. For instance, the plywood used to manufacture OpuLux scratch-proof boards has been designed specifically to provide a perfect mirror finish. The plywood is manufactured using E1 glue and is water-proof.

Although the standard size is 2440 mm x 1220 x 18 mm in all the core materials,

customization in terms of thickness and sizes is also possible for specific core materials. Because of their properties, OpuLux scratch-proof panels can also be used for horizontal applications like dining or conference room tables, coffee tables, etc.

OpuLux panels are completely environment-friendly and can be recycled. They are ideal solutions for a host of applications, such as home and office furniture, as well as important aspects of interior design in the hotel/ hospitality industry and retail commercial spaces.

OpuLux panels can be used in a variety of applications.



Canadian wood impresses Punjab professionals

Forestry Innovation Consulting India Pvt. Ltd. (FII-India) recently hosted a seminar and networking meet in Chandigarh to promote Canadian solid wood lumber in India. The event saw a gathering of select audience of contractors, carpenters and other woodworking professionals from Punjab region.

The event proved to be an excellent platform for knowledge sharing and to experience first-hand the qualities and versatility of Canadian Wood, in particular Western Hemlock, Yellow-Cedar, Douglas-fir, Western Red Cedar and SPF (spruce-pine-fir).

The interactive session covered several topics such as the benefits of using certified wood from sustainably managed forests; timber milling practices in Canada, producing standardized high-quality lumber; technical information on each species' physical and working properties; creating aesthetically superior and high-quality furniture, solid wooden doors, door frames, wooden windows, paneling and even other outdoor and structural applications.



Mr. Rajneesh Tyagi (Technologist, Wood Products) of FII-India, present a gift made of Canadian Wood to the lucky draw winner.

Mr. Pranesh Chhibber, Country Director, FII-India said, "India loves wood. In fact, the demand for solid wood has grown exponentially, leading India to import more than 7.5 million cubic metres a year to meet the demand. This is where Canadian Wood can plug a gap in the Indian market."

FII-India is the British Columbia government's market development agency for forest products in India. Its mandate is to promote B.C. and Canadian forest products by building relationships with importers, wood manufacturers and government agencies.

Ambition Mica to raise Rs 4 crore through IPO

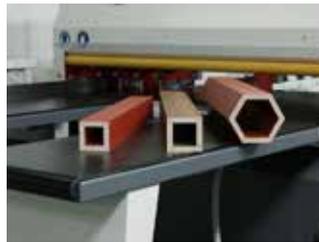
Ambition Mica, one of India's leading manufacturers of decorative laminates and door skins, is coming out with an initial public offering (IPO) to raise Rs 4.30 crore. The issue will open on June 23 and close on June 30, 2015, according to LiveMint.

Established in 2010, the Ahmedabad-based company has garnered 8% market share and earned BIS certification marks license and IS 2046: 1995 compliance in quality. With more than 1,100 designs in laminates and more than 400 designs in door skins, it has

very diverse design portfolio in the industry with specialisation in textured laminates.

With a strong network of about 20 distributors and more than 2,500 dealers, it serves both industrial and consumer applications. Although the company has only one manufacturing facility (Zak village in Gandhinagar district of Gujarat), it reported a net profit of Rs 0.87 crore on a turnover of Rs 20.49 crore in 2013. For fiscal 2014 it posted net profit of Rs 1.12 crore on a turnover of Rs 35.57 crore. (www.doorskinworld.com).

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Schelling Anlagenbau GmbH is headquartered in Schwarzach, Austria. The company has 400 employees worldwide at a total of 10 locations. The product line includes cut-to-size saws and systems, as well as automatic area storage and stacking systems for wood materials, and precision saws and systems for plastics, NF-metals, ferrous metals and PCB materials.



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Giardina executes Euro 2.5-million order in Kuwait

Italian expert Giardina Finishing is supplying five lines to a Kuwaiti construction giant, Hassan Abul Group, in a deal valued at Euro 2.5 million. Installation and commissioning of the lines is due before year's end, making it West Asia's biggest finishing plant.

Mr. Giampiero Mauri, president of Giardina Finishing, announced that the order involves a spraying line specifically designed for shaped doors and direct gloss finishing; a roller line to paint flat doors at high speed; a line to paint door profiles and frames up to 300-mm wide;

a painting line for coils of up to 200 mm for application to door edges.

There is also a backup line, so as to guarantee the maximum reliability and safety for the entire plant. The configuration includes loading and unloading equipment, tilting systems, vertical ovens, roller conveyors, handling systems to maximize the efficiency of the department.

The doors have different shapes, destinations, design and dimensions (up to big gates 2.5 metre high and 1.2 metre wide). The final decision was made after several tests with different conditions and coating products, which proved the effectiveness and versatility of Giardina's technology.

The customer is active in the construction of skyscrapers, department stores, luxury villas and shopping malls. To meet its commitments and ensure quality to the smallest detail, the Hassan Abul Group is setting up its own factories to produce several construction elements in-house, from glazing to ceramics, from bathroom fixtures to doors.

Housing market slump may persist

According to figures from the property research firm, Liases Foras, there was more than 800 million square feet of unsold housing stock in India at the end of 2014. While list prices for new homes rose in the final quarter of 2014, this hides the heavy discounts on offer from builders who are anxious to generate cash flow in the dull market conditions.

Mr. Yashwant Dalal, President of the Estate Agents Association of India, says even with the higher incentives being offered to brokers, the problem is the lack of buyers. Analysts anticipate a rise



in demand only when interest rates on home loans come down.

It has been estimated that, given the completed stock of new homes, even with a 1% fall in interest rates it will take around 40 months for this stock to be cleared at current rates of sales.

Meanwhile organisers of India Property Fest (Abu Dhabi, May 29-30), predict that

the sector is set to grow at 30% over the next decade, supported by a firm demand for office space in India's leading urban and semi-urban centres. The market is expected to grow to US\$180 billion by 2020.

Meanwhile, the fate of 'Housing for All' scheme, the centrepiece of the new Indian government's plan for the housing sector, depends on the

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proposed amendment to the Land Acquisition Act.

According to Union Minister for Housing and Urban Poverty Alleviation, Mr. M. Venkaiah Naidu, if the draft is passed in Parliament, it would pave the way for creating 20 million affordable homes in urban areas by 2022.

The plan for housing has four elements: slum redevelopment, affordable housing in partnership with private or public sector, affordable housing through credit-linked subsidy, and subsidy for

beneficiary-led individual house construction and enhancement.

Factories closed

During checks by the respective forest departments, several illegal mills in Yamuna Nagar district in Haryana have been forced to shut down. In another raid, 24 sawmills and four plywood factories in Hoshiyarpur, Punjab, were ordered closed.

In 1997 the Supreme Court determined that applications for investment in

wood-based industries must secure approval from a Central Empowered Committee (CEC) in the respective state. This measure was taken to prevent illegal felling. Approval is only granted if the investor can provide an assurance of a sustained supply of raw material.

After the Supreme Court decision, mills within a 16-km radius of government forests were forced to move and prove they had secure supplies before being allowed to reopen. – *ITTO News*



A doctor examines a patient at a hospital in Quiha, Ethiopia.

Visitors to Blum's booth at Interzum 2015, as in the years before, have been forgoing their fair gifts and supporting social projects for the last 30 years. This year's Interzum donation again went to

Blum donates to social projects at Interzum

'Light for the World', to finance eye operations for people in the poor regions of the world.

Fair gifts have a great tradition for Austrian fittings manufacturer Blum, but not in the conventional sense. Instead of handing out gifts, Blum has supported social projects for the last 30 years. Visitors to Interzum in Cologne (Germany) were again asked to forgo their gifts and instead sign the visitors' book at its booth.

Every five seconds, one person goes blind in the Third World. About 50% of blindness all over the world is caused by cataract. A 15-minute operation (which costs Euro 30) suffices to replace the clouded lens with an artificial one.

'Light for the World' carried out 50,790 cataract operations in Africa, Asia, Latin America and South-East Europe last year.

New management team at Altendorf

Wilhelm Altendorf GmbH & Co. KG of Minden, Germany, has appointed two new directors at the beginning of the year to serve alongside Managing Partner, Mr. Tom Altendorf: Mr. Jorg F. Mayer (responsible for sales) and Mr. Wolfgang Ruhnau, responsible for the commercial management of the Altendorf Group.

These appointments at Altendorf are seen as a marking the

start of transferring the management of the family company to the next generation. Mr. Wilfried Altendorf continues to serve the company as Partner and Chairman of the advisory board.

Mr. Vit Kafka has been named the new Sales Director of Altendorf Sales Centre East, with its focus on all sales, service and marketing activities in China, South-East Asia, Australia, New Zealand and Japan.

Caple adds SCM, Vitap dealerships

At the recently-concluded Ligna 2015 in Hannover (Germany), Mumbai-based Caple Traders bagged two new dealerships: SCM for its classic machine range, and Vitap for its single head boring machines.

Caple Traders has grown over the years into a dealer of the most premium brands of woodworking machinery in India.

With regular professional sales, product and process training, it aims to deliver the best solutions, with consultancy in application and process, leading to excellence.

Caple Traders, which has accumulated 40 years of experience in India, boasts of two fully functional demo-cum-training centres in Mumbai and New Delhi. (www.caple.in).

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Sleek Boards India wins Bizz 2015 award

The World Confederation of Businesses (Worldcob), an international business organization with members in over 100 countries throughout Africa, Europe, the Americas and Asia, conferred the Bizz 2015 award on Sleek Boards India LLP.

Among the world's most important business excellence awards, it is given each year to recognise an outstanding company for its display of business excellence.

The evaluation committee observed, "Sleek Boards India has consistently gone above and beyond in its compliance with the evaluation criteria for business excellence, namely business leadership, quality of its goods and services, management systems, innovation and creativity, corporate social responsibility, and its achievements".

Mr. Nitin Vaze, CEO, was awarded World Leader Business Person, and the



company was awarded with World Business Leader certifications in a function held in Texas, US, in May 2015.

Sleek Boards has 18 years expertise in marketing of top quality panel products to all panel processing factories and brands in India. It is also an ISO 9001-2008 certified company.

Canada organising global buyers' meeting

The High Commission of Canada in India is organising specially tailored mill visits and business-to-business meetings with Ontario Wood Exports Association members in Toronto.

The objectives of the visit are to identify new sources/ mills for lumber; to better understand additional/ new application for use of Canadian lumber; to get

acquainted with Canadian heat treatment, kiln drying, saw milling and phyto-sanitary inspection process; and to better understand Canadian lumber dispatch and shipping process.

It forms part of the 12th Global Buyers' Meeting (GBM), taking place in Whistler (near Vancouver), British Columbia, from 10-12 September 2015. This is Western

Canada's largest wood event with more than 75 selected exhibitors for high quality and competitively priced wood products. More than 800 buyers from China, Japan, India, USA and Europe attend the event.

This delegation is being organized in partnership with Forestry Innovation Consulting India, British Columbia's market development agency for forest products.

For details of the GBM, go to <http://www.bcwood.com/programs-services/global-buyers-mission>, or contact the trade commissioner: viney.gupta@international.gc.ca.

Biesse, Cefla lend strength to Xylexpo 2016

With less than a year to go Xylexpo 2016, Italy's biannual exhibition for technologies and supplies for the furnishing and woodworking industries, got a shot in the arm when two industry stalwarts decided to rejoin the international trade fair. The Biesse Group has confirmed its participation as an exhibitor at next year's event.

"Our decision to participate at Xylexpo once again was certainly based on our past attendance record at this event, which, despite the complexity of the

current times, shows our desire to go above and beyond," explained Mr. Giancarlo Selci, founder and CEO of Biesse.

Said Mr. Lorenzo Primultini, president of the exhibition and Acimall: "For us, the 2016 edition will be one of transition. We are well aware that the time has come to change, and to offer the Italian and international exhibitors new opportunities."

Cefla Finishing Group will also be back

to Xylexpo in 2016 (May 24-28) at the FieraMilano-Rho.

Said Mr. Alberto Maestri, Managing Director of Cefla Finishing Group, "Italy has always boasted exceptional innovation skills in all processes related to furniture and interior decorations, from design to manufacturing. Xylexpo is an event that offers huge potential, recording constant development and growth with an increasingly global scope."

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Single-door vacuum membrane press



Adequate maintenance is a crucial factor for longer life of the machine, and to obtain optimal working output from the machine itself. All maintenance operations must be done with the machine turned off and with protective gloves.

The working environment must be clean, and dust and wood shaving, etc should be prevented from falling on the working table. It is also advisable to keep the trays clean.

The cleaning operation must be carried out at the end of the working shift, so as to keep the press tray in good efficiency, by paying attention to the residual risks.

- Check & replace the vacuum pump oil. Jai Industries suggests replacing of the oil once every three months.
- Check the oil level twice every day. Oil level should be as per indication on oil indicator A in Fig.1.

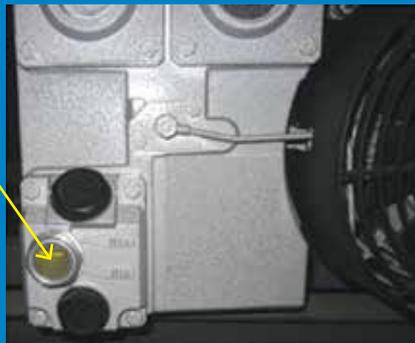


Fig.1.

- If oil level is low, the functioning of the vacuum pump will be affected. If the oil level is high, the oil will spray out of the pump.
- Check and replace the filter A of vacuum pump (Fig.2). Clean the filter once every week. If it is very dirty and wet, the filter should be cleaned more frequently. If the filter core is found out of order, it should be replaced immediately.

Fig.2

- Make sure that any material not needed by the machine can gather on it, preventing safe operation and causing danger to the operator during the normal working cycle.
- Sliding bars and movement of tray must be kept clean from working residuals: that can create an obstacle to correct machine movements and damage machine efficiency.
- Silicon membrane sheet is fragile and easy to be pricked by sharp objects. It will not be repaired once damaged, so be careful to use it.
- Make sure the machine is always cleaned and lubricated regularly.
- Check the electric system safety with inspection of the condition of the electric cables. Make sure there are no signs of wear, scrapes etc.
- Check the clamping of various mechanical components.



Problems, Causes & Remedies

Problems	Causes	Remedies
Abnormal operation of mechanical system	The rolling wheel clogged or bearing damaged Foreign objects in part of transmission	Clean tracks or replace bearing Check transmission
Sucking covering not in place/ inadequate vacuity.	Abnormal operation of vacuum pump Low heating temperature short heating time PVC film damaged Leakage from pressing frame Defective vacuum or leakage from vacuum pipe line Gauge not show proper vacuum	Check & repair vacuum pump Reset Replace Adjust pressure of frame hinge A as shown in Fig.3 Check & repair vacuum pipe line Check & repair vacuum gauge
Heating uneven	Heating bulb fused Heating wire broken or loose	Check & replace Fig.4 Check & replace or repair it
Abnormal temperature	Temperature controller sensor damaged Circuit shorted or loosened	Check & replace or repair it Check & replace or repair it
Circuit breaker fuse open	Electric components shorted grounded	Check & replace or repair it

Fig.3

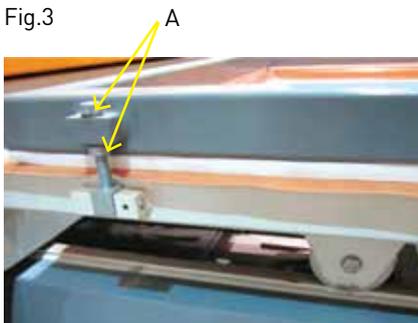


Fig.4



EVENTS CALENDAR

Kerala Furniture Fair

Date: 7-9 August, 2015

Venue: Rajeev Gandhi Indoor Stadium,
Cochin, Kerala

Woodtech India-2015

21-24 August, 2015

Venue: Chennai Trade Centre, Chennai,
Tamil Nadu

India Furniture Expo-2015

28-31 August, 2015

Venue: Nehru Centre, Mumbai,
Maharashtra

FMC China-2015

9-12 September, 2015

Venue: SNIEC, Pudong, Shanghai, China

Sri Lanka Wood International Expo-2015

11-13 September, 2015

Venue: Bandaranaike Memorial
International Conference Hall, Colombo,
Sri Lanka

Mumbaiwood-2015

1-3 October, 2015

Venue: Bombay International Exhibition Centre,
Mumbai, Maharashtra

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Editorial

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Horizontal Mill



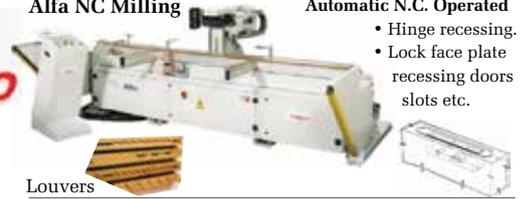
HTZ-800



Sliding Table Panel Saw

Spindle Moulder

Alfa NC Milling



Automatic N.C. Operated

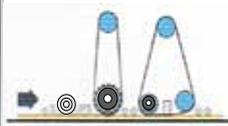
- Hinge recessing.
- Lock face plate recessing doors slots etc.

Louvers

SANDING MAX



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Profile Sander

Segmented Pad



Multiple Rip Saw



Straight Line Rip Saw

Automatic Through Feed Edge Banding (Compact Machine)



Portable Edge Bander



Manual Edge Bander



Vertical Band Re-saw



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Rectangular Tenoner DAD-115



Oscillation Mortiser MOM-130

Auto Panel Saw



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