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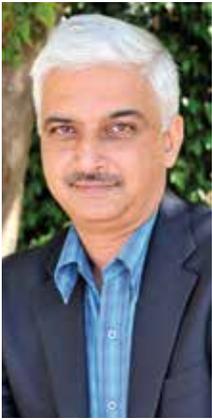
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Of Chinese whispers and Indian tricks



Dear Reader,

India's manufacturing industry is still underdeveloped and it doesn't have the ability to produce competitively, the *Global Times*, a newspaper affiliated to China's ruling Communist Party, opined recently. That's why its long-running attempt to boycott Chinese products has failed so far, it stresses in an unsigned commentary. "Some Indian analysts have been appealing for a boycott of Made-in-China products, and the hashtag #BoycottChineseProducts has become popular on Twitter. But the boycott attempt has failed

FROM THE EDITOR

DHANANJAY SARDESHPANDE

for so many years because India still lacks the ability to produce on a large scale," it added.

The newspaper further advised Indian politicians to improve the country's real strength, instead of just shouting slogans on Twitter. It said "forces inside India" are hampering the country's reforms process. Why am I quoting this so extensively? It is a well-known fact that in the industrial sphere it will take India many more years – and much more governmental attention and support – before we can play catch-up.

Enter a bunch of young startups in India's hinterland that holds out hope for us as a nation and as the collective furniture manufacturing industry in the country! I am talking about our cover page entrepreneurs and promoters of Iraj EVO Design Company in

Udaipur: Saurabh Khetan, his wife Astha and cousin Manan Khetan. Theirs' are still ideals on paper; but the intention is genuine, the purpose is earnest, and their efforts are unbiased. Read the article to see where I am getting at!

The 2019 edition of DelhiWood concluded successfully at the India Expo Mart and Centre in Greater Noida in March, with more than 527 exhibitors showcasing their latest products on 42,000 square metres of display space. It also recorded an impressive attendance of more than 27,000 visitors over 4 days. But the more exciting part is that, come IndiaWood 2020, you all will be treated to a bonus – the India Mattresstech Expo (IME) running in parallel! This trade show of mattress and upholstery technology, materials and machinery complements the already successful, largest woodworking show in India.

It is heartening to know that India has become the latest country to achieve endorsement of its national forest certification system by the Programme for the Endorsement of Forest Certification (PEFC). Realising the importance of forest certification, the Union Ministry for Environment, Forests and Climate Change had called for buying products made from certified wood only, in order to promote sustainable forest management. India's Network for Certification and Conservation of Forests (NCCF) has developed a system through a multi-stakeholder group, including forestry professionals, representatives from government, forest corporations, conservation organisations and industry bodies. This bodes well for sustainable furniture manufacturing using legally harvested raw materials.

Until next time, happy reading!

STAYING IN TOUCH

In keeping with the times and for ease of communication, WoodNews has discontinued the printing of Business Reply Envelopes with each issue of the magazine.

However, we continue to welcome your views and reviews of happenings in the industry, your contributions to and suggestions for the magazine, as well as business proposals via email.

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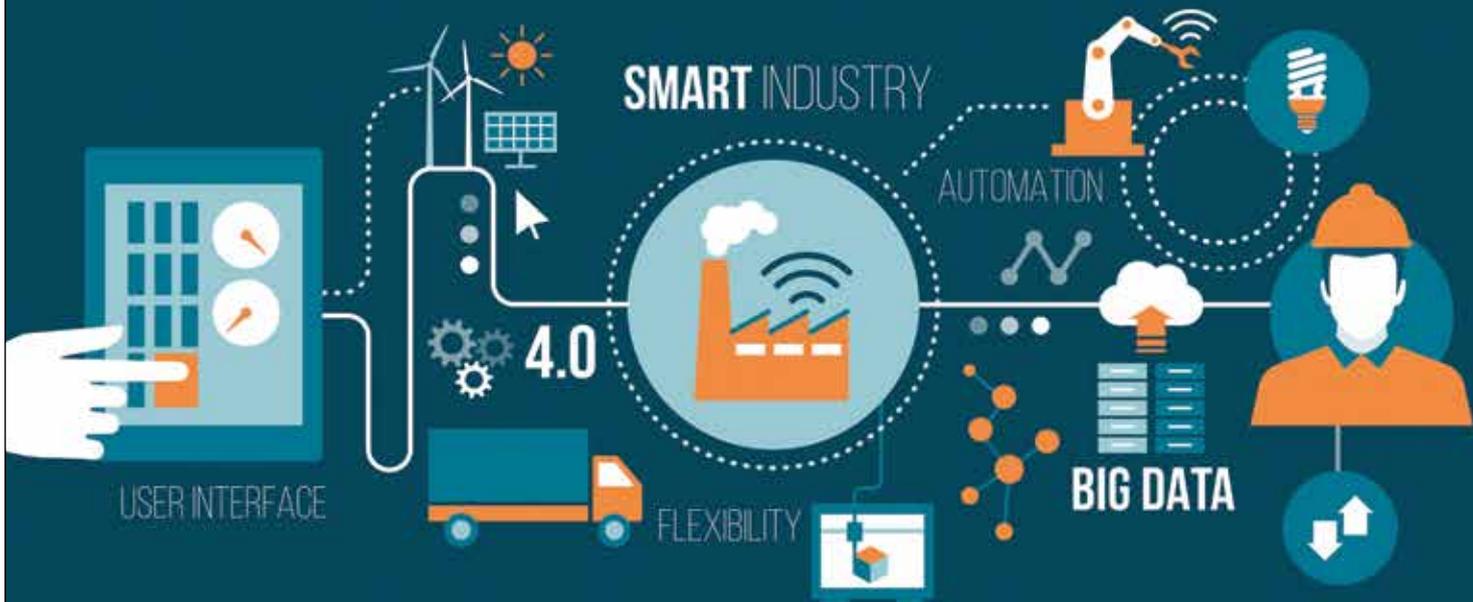
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FORMAT

IOT in the woodworking industry



By Zarine Susan George

Recently an antique woods dealer set his eyes on my grandmother's lovely rosewood cupboard, which has passed the century mark, and offered a substantial amount for it. Made of thick heavy rosewood, the cupboard has stood the test of time with no marks, scratches or decay and still very much usable.

However, looking at recent trends, my grandmother's cupboard is likely to end up as a museum piece, just like the American railroad. The success of IKEA in India has confirmed that Generation X's preference is in the direction of modular, convenient, do-it-yourself, low-cost furniture.

Out of these "low cost" seems to be the major attractive factor, especially with IKEA planning to launch rental furniture in 30 countries. Low cost is also expected to be a trump card against competition from other materials such as plastics, metals and concrete.

Cost reduction can be achieved in several ways, mostly by reducing the cost of operations through lean manufacturing, optimum utilisation of resources, reduction of waste in material and processes, increased mechanisation and automation, fewer errors, reduction in human resources, mass production, just-in-time inventory, etc.

Four revolutions

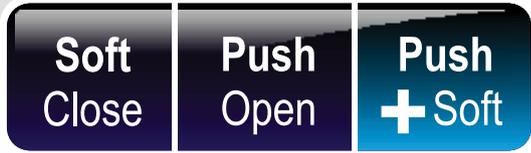
The woodworking industry has generally had a stand-offish attitude towards technology with even mechanised tools being adopted very late. However, recent trends have left manufacturers with no choice but to embrace the very latest in technology.

While the first two industrial revolutions were mainly brought about by mechanisation and electricity, the third revolution saw the introduction of computer automation in manufacturing through PLCs (programmable logic controllers) and robots.

The fourth revolution now sees the rise of digital transformation and virtualisation, enabling seamless interaction between physical devices and software systems. This is likely to disrupt the business landscape and revolutionize the operations process. I-Scoop defines "Industry 4.0" as the information-intensive transformation of manufacturing and other industries in a connected environment of data, people, processes, services, systems and IoT-enabled industrial assets with the generation, leverage and utilisation of actionable information as a way and means to realise "smart" industry and ecosystems of industrial innovation and collaboration.

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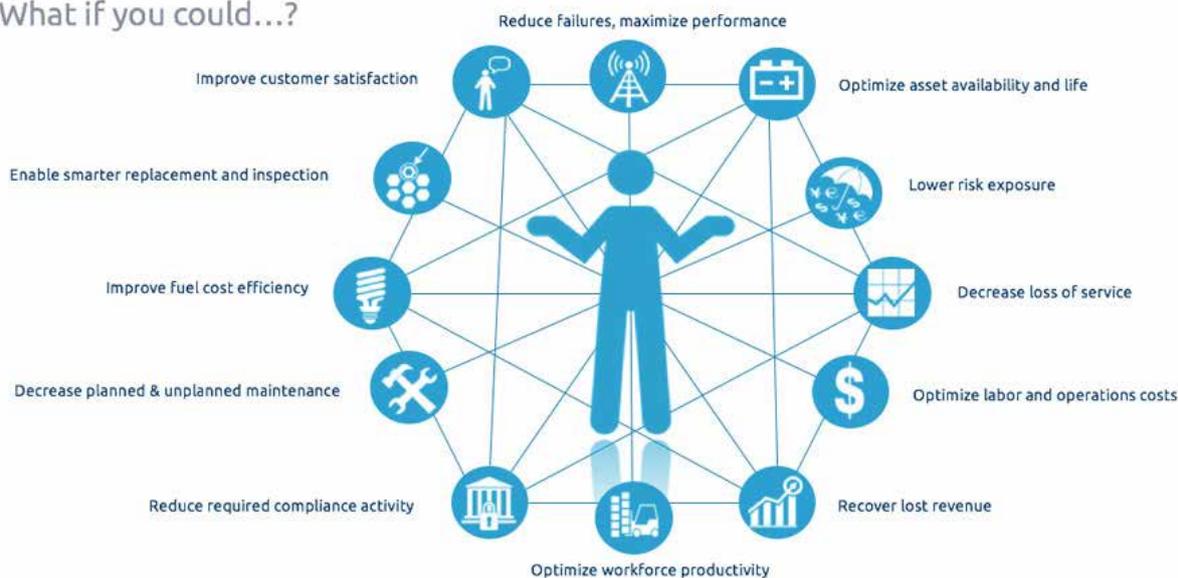


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Predictive Maintenance

What if you could...?



Some of the emerging technologies in 'Industry 4.0' are artificial intelligence, robotics, the Internet of Things (IoT), autonomous vehicles, 3-D printing, quantum computing and nanotechnology. Of these IoT is the major game changer.

Techopedia defines IoT as a computing concept that describes the idea of everyday physical objects being connected to the internet and being able to identify themselves to other devices.

IOT in woodworking

IoT has found many uses within major processes in the woodworking industry resulting in increased productivity gains, higher quality and reduced costs. Some of the operations in which IoT has scope are saw milling, seasoning of wood, predictive maintenance, energy monitoring and performance management.

While the basic principle of saw milling remains the same – a rough log goes in one side and a precisely cut board appears on the other side – the sophistication and the speed with which it is produced has increased by

leaps and bounds.

Scanning and optimising systems have replaced human judgement in deciding the optimal and profitable cut, based on a quantitative and qualitative collection of data such as grade, texture and knots. This also helps reduce wastage of raw material by optimum utilisation.

The ability to classify logs based on their physical characteristics also helps in quality control. Scanners can be connected to order and demand forecasting systems to ensure cuts for which you have demand, thereby reducing wastage and excess inventory. They can also be connected to market pricing systems to ensure even more profitable cuts!

The by-products of saw milling – such as sawdust, bark, woodchips and wood pellets – are utilised for other industries. Diversifying helps reduce wastage and also spreads the risk. Mill owners can plan what products to produce based on demand ensuring maximum profitability and productivity.

This is especially important in an industry where, besides labour, the

major challenge lies in getting a steady affordable supply of wood. This makes it imperative to make use of every scrap of wood. As one enterprising mill owner put it, "We need to turn 5 feet of a log into 6 feet of product."

Take the case of HHP Inc., a hardwood sawmill in Henniker, New Hampshire (US). In 2005, HHP invested US\$4 million in specialised equipment to enhance productivity. It uses advanced scanners and sawyers for precise trimming and the extraction of the maximum saleable product from a log of wood.

It also cut down HHP's labour force significantly. In 1989, with 20 employees, the company had sales of US\$2.5 million a year. In 2005, with 50 employees, the sales have increased to US\$18 million.

Seasoning wood

The connectivity that IoT provides between different processes, machines, maintenance, and safety systems also enables to remotely monitor saw and planer performance, as well as temperature or moisture content of wood and kilns, ensuring a

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more effective and efficient overall mill operation.

IOT has a very significant role in the drying process due to its inherent sensing capabilities. Most of the drying process is based on temperature and humidity control.

Many technology firms in the US and Europe have robust integrated hardware and software solutions for industrial drying kilns specifically for the wood industry. PLCs can be connected to temperature sensors, heat coils, fans, etc. A PC monitors and controls all PLCs.

This maintains optimal temperature and humidity automatically with no human interference and lowers the chance for human error. The same kiln can be used for different types of wood with different temperature requirements, eliminating the need for multiple types of equipment.

The additional advantage is the availability of wide range of real-time measurement data, enabling proactive action. It prevents errors and wastage of wood, which is a big issue in the wood industry.

Maintenance & monitoring

The sensory capabilities of IoT can be used to predict maintenance or faulty machines, preventing equipment breakdown and, therefore, loss of productivity. With machines connected to the internet all the time, there is a constant sharing of information in real time.

The data can be used to predict the need for maintenance and accordingly, it can be scheduled. The machines can be directly connected to the supplier's systems, enabling prompt action.

Many companies provide easy-to-use and visually rich cloud-based software dashboard that shows real-time status and performance of machines, enabling effective

infrastructure management. IOT enables remote monitoring of machines via smartphones.

“Smart glasses” are the latest technology through which, if personnel detect a defect, s/he can wear the glasses and the service department can see what s/he can see and solve the issue in real time instead of waiting for a technician. Predictive maintenance significantly enhances machine productivity.

The insights generated by IoT can further be used to measure, monitor and control energy consumption. Advanced power strips, load-shedding devices, and occupancy sensors allow for remote and automated measurement and control. The automation protocols can be programmed to ensure maximum efficiency in energy usage.

Performance management

The unique selling proposition of IoT is its ability to provide data. A firm can gain exponentially by investing in the right range of data analytics tool and taking corresponding measures.

Suppose a manager wants to see the number of cabinets produced by a unit in a day. A “smart” chip can be installed, which will be activated after the completion of each cabinet.

The manager can get real-time data on the number of cabinets being produced and time taken to produce and correct any aberrations in the data. It will also enable him/her to perform root cause analysis, remove bottlenecks and further improve productivity.

The adoption of IoT is nascent in the technology-agnostic woodworking industry. There are many barriers to adoption. One is data security. With most devices and equipment connected to the internet, data can be vulnerable to attack from hackers

who can disrupt the system just for fun.

Care should be taken to implement robust encryption algorithms in the IoT system. Networking can also prove to a hassle with the multitude of devices connected and data to be transported.

One can overcome this using Li-Fi which, overcoming bandwidth limitations, allows more data at faster speeds than conventional networking devices.

Cost barrier

The other major implementation barrier is cost. A senior manager may balk at the cost, especially since the benefit is not quickly visible and benefits are difficult to quantify.

The woodworking industry must also take changing environmental regulations into consideration. With increasing environmental awareness, there's more resistance to the felling of trees. The latest technology can help conform to environmental norms.

One way for senior management to overcome their objection to cost is to start small. Start with an important, but relatively low-cost investment area to begin with.

Fortunately, IoT is scalable and more devices and equipment can be added to the centralised analytics system as the benefits become apparent. Furthermore, IoT costs are reducing as the technology goes mainstream.

In future, despite its temporary limitations, the tough competition that the furniture and the wood industry face in the current market scenario will make IoT the norm rather than the exception.

– *The writer is an Associate Business Consultant with Tech Mahindra, Bengaluru.*

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Indian furniture exporters, beware!

'Threat of timber scarcity can turn into opportunity with certified American hardwood species'

By Rupert Oliver

Against decreasing access to traditional hardwood supplies and increasing requirements to provide assurances of legality and sustainability in export markets, the Indian wooden furniture and handicrafts sector has, by using American hardwoods, the ability to turn a threat into an opportunity.

India is well placed to exploit comparative advantages in the global market for wooden furniture and handicrafts. Backed by a strong woodworking tradition, high skills, and competitive labour rates, Indian manufacturers are gaining a strong international reputation for their ability to supply high quality and fashionable products at a competitive price.

To maintain this growth, Indian manufacturers must deal with the related challenges of depletion of traditional sources of wood supply, and a strong focus on avoiding any wood products that might come from illegal

sources in the main consuming countries of North America and Europe.

An effective strategy to overcome these challenges is to manufacture products from American hardwoods which are not only abundant but backed by an assurance of legal and sustainable production which is already well recognized in the main consumer markets.

Indian exports

India's exports of wood-based products, which mainly comprise wood furniture, more than doubled from US\$ 500 million in 2010 to US\$ 1.05 billion in 2017. Latest data indicates that exports increased a further 7% to around US\$ 1.13 billion in 2018.

Last year, 40% of exports were destined for the US and 31% for the European Union. Much of the product exported to the US and the EU is sold to big corporations, who are now being targeted by regulators and environmentalists in their efforts to reduce illegal logging in wood supply countries.

India's vast wooden furniture and handicrafts sector still relies heavily on locally-sourced

1 *US hardwood showcase in the Berlin Library, Germany.*

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2 *Proof of versatility in a cocktail kitchen and bar. Photo: T.Zed Architects*

hardwood species, such as mango, acacia and sheesham (*Dalbergia*). The last of these timbers is now identified by CITES as an endangered species and trade is subject to tight control.

Although the other species are not endangered in the same way, overall supply is restricted and there is growing competition for the wood that is available.

3 *American hardwoods in the Yale School of Forestry. Photo: Morley von Sternberg*

Tougher laws

The wood supply situation is greatly complicated by the highly fragmented structure of forest operations and the wood trade, and by the rising demand for assurances

that timber derives from legal sources.

This last trend is driven by the introduction and tightening of laws which make importers of all wood products, including furniture, liable to sanction if any illegal wood is identified in the products they sell.

In 2018, countries implementing these laws, which include the US, the whole of the EU, Australia, Japan and South Korea, accounted for over three quarters of the total value of India's wood product exports.

The sanctions for failure to comply with these laws can be severe. This is most vividly illustrated by the US\$ 13.5-million fine imposed on Lumber Liquidators for US Lacey Act violations in relation to flooring manufactured in China from hardwood sourced from Russia and Myanmar.

To date the largest sanction imposed for non-conformance to the EU Timber Regulation (EUTR) is a fine of 80,000 Euros in Sweden, linked to imports of Myanmar teak. On top of the direct financial effects of these sanctions is the severe reputational damage due to prosecution.

India under watch

Recent feedback from surveys of European furniture importers reveal that India is regarded as one of the most difficult countries from which to obtain reliable assurances of the legal origin of products – more challenging than from suppliers in Vietnam, Brazil, China, Russia and several countries in sub-Saharan Africa!

How can Indian manufacturers respond to this challenge to their competitiveness? One approach is to rely on private sector certification systems like FSC and PEFC to provide the legality assurances required by customers.

Certainly, these systems can help in some countries, but they don't provide all the answers, and in some ways just create more problems.

Indian manufacturers have very little access to certified hardwood supplies, which are concentrated in Europe, and certification has never been successfully applied on a large scale to small holders outside that region.

It's also becoming increasingly clear to importers in the US and the EU that procurement of certified wood is no a reliable assurance against prosecution. A UK importer was recently fined for a failure to comply with



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Malaysian Furniture Council (MFC)



The Timber Exporters' Association of Malaysia (TEAM)



Association of Malaysian Bumiputra Timber & Furniture Entrepreneurs (PEKA)



4 News agency Bloomberg's headquarters in the European Union. Photo: Fosters & Nigel Young

EUTR in a case involving FSC-certified ayous from Cameroon.

Allegations of widespread illegality have emerged in relation to FSC certified products from China and Ukraine also.

Indian manufacturers need to identify more efficient and politically realistic ways to satisfy the legal obligations of customers. Fortunately, these are not hard to find – all that is really needed is an understanding of the legal obligations of overseas customers.

A way out

While the details of the various laws introduced in the US, EU and Australia differ, they all share one critical feature. They are all risk-based.

The need for far-reaching measures to track wood to individual forest management unit, or to seek FSC or PEFC certification of supply chains, apply only to those countries, or regions, where there is a risk of illegal harvest.

If the risk can be shown to be “negligible” at national level (using the terminology of EUTR), then there is no need to trace timber further than to the port of export from the supply country.

This opens the door to a very simple solution for Indian manufacturers interested in expanding markets for their products in the EU and the US. They should manufacture their products using wood imported from countries where there is a negligible risk of illegal harvest.

There are many wood exporting industries that claim all their wood is legally sourced. However, only one globally significant supplier of hardwoods, the United States, has invested time and resources to ensure this is independently demonstrated and documented to ensure conformance to laws

like the Lacey Act and EUTR.

A decade ago, the American Hardwood Export Council (AHEC) commissioned the world's first independent sector-wide study to quantify the real risk of illegal wood entering the supply chain.

This report, which was recently reviewed and fully updated, confirms that there is a negligible risk of any US hardwood containing wood from illegal sources, specifically that stolen timber represents much less than 1% of total US hardwood production.

Reliable forestry

The assurance offered by this study – often referred to as the “Seneca Creek report” after the company responsible for its preparation – is already well recognised by importers, and by US Lacey Act and EUTR authorities, as providing the kind of documented assurance of legality required to demonstrate conformance.

By using American hardwoods, Indian wood product manufacturers can transform laws like EUTR and Lacey Act from a threat to their competitiveness, into a major opportunity.

In addition to providing the required legality assurances, there is reliable forest inventory data, collected at regular intervals for nearly a century, to confirm that the resource is not only abundant, but are expanding rapidly.

US hardwood forests cover around 111 million hectares, equivalent to about one-third of the entire land area of India.

The volume of hardwoods standing in US forests, which now exceeds 13 billion cubic metres, has more than doubled in the last 50 years and is still expanding (after harvesting) at a rate of around 150 million cubic metres per year.

US hardwood species like oak, ash and tulipwood are already fashionable in the US and European wood furniture sectors. There is a tremendous opportunity to combine Indian woodworking skills and styles with American hardwoods to produce globally competitive furniture products.

– The writer is is the Director of Forest Industries Intelligence Ltd., an independent forest products consultancy specialising in timber trade analysis and related environmental issues, including sustainable forest management, certification, carbon footprint and life cycle assessment. He is also a consultant to AHEC for sustainability issues.



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1

Charge of the Youth Brigade

Udaipur's I.EVO promoters set new benchmark for furniture factories in India

A family of well-to-do entrepreneurs repeatedly comes up against a wall when searching for good quality loose and fixed furniture for their spanking new upmarket clubhouse in Udaipur. Either the woodworking workshops cannot match their requirements, or importing furniture is beyond their budget and delivery schedules.

Frustrated, the youngsters decide to set up their own manufacturing unit. *Déjà vu?*!

Dhananjay Sardeshpande shares with you their story of learning, development, challenges, philosophy and dreams of the future.

1 *Training and development at I.EVO is not limited to machine operators and carpenters; it includes techno-commercial and management skilling programmes.*

Cover-Photo: Top guns at Iraj Evolution Design Company (L-R): Managing Director Saurabh Khetan, Astha Khetan and Manan Khetan (both Directors).

We are talking about Iraj Evolution Design Company (I.EVO) in Udaipur and its promoters, **Saurabh Khetan** (Managing Director), **Manan Khetan** and **Astha Khetan** (both Directors).

They have been running a clutch of successful businesses out of Udaipur, some of them established by their forefathers before they were born. Although they had no prior experience in woodworking, the demand for quality furniture egged them to start their own industrial venture.

In 2012, I.EVO began with a “laboratory”, a 10,000-square-foot industrial shed on the outskirts of the town, in which they began prototyping. The promoters are accompanied by Rahul Mehta, CEO of I.EVO, and Danish Khan, who is the privately-owned company's Lead of People Department.

Initial furniture consisted of chairs, tables and bedroom units aimed at the hospitality sector. It must be noted that Udaipur and major cities in Rajasthan are big on heritage tourism. The company took on a variety of small

“

It is well known that hard work and smart work are the ‘mantras’ to success. But the need of the hour is Team Work among Indian manufacturers. Collectively, we can rise above the world competition.



– *Rahul Mehta, CEO of I.EVO*

institutional and individual projects – even if some of them were not profitable – to be able to learn about technology, nature of solid wood and wood-based panels, and to understand the market.

Says Manan, who is the numbers-crunching expert in the company: “We did not undertake a market survey or order a techno-feasibility report. Instead, we spent money and time on experiential learning for a whole year.”

The stress was on understanding quality, learning design, establishing and following processes, achieving scales of production, and living up to project completion deadlines. So the machinery and material were ordered to suit these aims.

Learning at exhibitions

So how did the present-day, scientifically planned, 1,10,000-square-foot factory come about? Saurabh and his team of dedicated managers and carpenters scoured the country for knowledge, which was largely met by attending the two most relevant and important trade fairs in the country: IndiaWood and DelhiWood.

“Exhibitions are a great place to learn, understand the ecosystem and meet people from the industry. IndiaWood and DelhiWood are concentrated platforms that have technology providers, materials and machinery suppliers and consultants on board,” says Saurabh.

Ligna (in Hannover, Germany) was also a big learning experience for Saurabh. “Since all industry competitors are present under one event umbrella, it is easy to extract knowledge, compare products, understand pricing and arrive at better decisions,” he says.

And that is how, during DelhiWood 2011, he met Marc Pfetzing of Schuler Consulting-India. It resulted in a full-fledged, professional contract to set up a modern factory. Along the way there were representatives from Homag, Caple Industrial Solutions, Felder, WoodTech Consultants, and Biesse Manufacturing that helped the I.EVO team understand the pros and cons of the woodworking industry and market needs.

“Because we were all learning, and did not have any pre-conceived notions about furniture-making, we could make good use of all the information that came our way,” Saurabh recalls. “In fact, some of these suppliers are now good friends and guides,” he adds.

Says the People Department Lead, Danish: “Even now we regularly send 20-odd carpenters, machine operators and managers from our factory to IndiaWood and DelhiWood. They are primed beforehand, and are debriefed after visiting the exhibitions.”

Market segmentation

I.EVO is now a self-contained “interior solutions” company, with its own R&D ▶



Training is our cornerstone. Freelance carpenters who joined us are now earning more than they did running their own businesses.



– Danish Khan, Lead, People Department at I.EVO

laboratory, design studio, prototyping and product testing centers. Within the main factory, there is a sofa and upholstery unit, coating and finishing section, metalworking section, a lighting studio and an artisan centre.

The company graduated from its experimenting stage with a clear focus on the hospitality sector. It accounts for 70-80% of I.EVO's business. "We are best placed to cater to this sector," says Saurabh. "We have solid wood and panel processing capabilities, a team of good designers and interior decorators, expertise in upholstery and metal working, plus an effective delivery team."

He believes clients in the hospitality sector are a lot more focused on what they want, are professional in their dealing, and financial transactions are timely. There is very little competition in this sector, because not many OEMs have such wide-ranging capabilities or production capacities.

2 *The hospitality sector, including hotels in the US, accounts for 80% of I.EVO's business.*

There is another encouraging trend: clients increasingly prefer Indian OEMs to Chinese contractors! In fact, apart from executing several prestigious top-end hotel projects across India, I.EVO has bagged contracts for four hospitality projects in the US: two have been executed already and the others are in various stages of completion.

According to Astha, "This is an exciting, creative and challenging market. What is more, it is growing exponentially!" She should know, because she also runs 'The House of Things', an online portal started in 2017 to cater to curated furniture, art and interior decoration.

With the advent of furniture giants like IKEA into India, she adds, there is a better understanding of good design. I.EVO also caters to high-end homes – a spillover from the hospitality projects – and builds kitchens and offices.

Machines & material

All processes in the I.EVO factory are directed at production scalability along with product quality and engineering precision. This has necessitated that its panel and beam saws, routers, presses, edge banders, finishing and coating equipment, etc. are 100% automated.

In the learning phase there were machines from Jai Industries. But as the factory and business grew, the management inducted CNC precision machinery, tools and coating booths from Altendorf, Biesse, Felder, Festool and Homag.

I.EVO's sourcing of timber, panels, laminates, ▶



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3

3 All processes in the factory are directed towards product scalability, along with quality and engineering precision.

glues and coatings are predicated on similar factors.

Seasoned wood – mainly Steam beech and White ash from France, Germany and the US – is supplied by timber trading houses in the port city of Gandhidham (Gurajat). While these species are supposed to be good for surface finishing, the factory uses kiln-dried spruce-pine from Canada, mainly for internal frames for sofas.

The factory also consumes Douglas fir, Red cedar and hemlock in varying quantities. But the blind demand for teak continues. “The fascination for Burma teak still thrives,” says Saurabh, adding: “In India, anything that looks like teak – especially hardwoods from Africa – sells as teak!”

So far as furniture fittings and hardware go, it is mostly specified by clients in the hospitality sector. However, Hettich has a huge range to choose from; Hafele is good at architectural hardware; and Ebco takes the lead in the office furniture and automation segment, says Saurabh.

In the category of consumables, the promoters stress on formaldehyde-free formulations from Italian and German manufacturers. For example, it is Kleiberit for adhesives, Jowat for edge banding glue, Rehau for edge bands, and ICA, Kupsa and EVA paints and coatings.

Automation & training

The I.EVO factory started out with AutoCAD; then graduated to Homag’s Wood CAD/CAM. However, the latter gelled well only with Homag machines, says Saurabh. Pytha’s software suite suffers from machine integration and has no default library; so it is used for prototyping and small-batch

production.

During DelhiWood 2016, I.EVO signed up for Imos, after experimenting with it for 6 months. “It integrates very well with machines of different makes; it has a default library from all hardware makers, which is updated periodically; and Imos has a fun-filled, user-friendly training programme,” Saurabh recalls.

Training seems to be the mantra for I.EVO’s progress; its employees are not only passionate about work, they are constantly being assessed and their skills upgraded, says the company CEO, Rahul Mehta.

“We prefer freshers, because it is difficult to make experienced carpenters unlearn some outdated practices. Young carpenters and machine operators pick up correct techniques very quickly, understand and follow processes willingly, and are eager to deploy their skills at work,” notes Rahul.

Freelance carpenters are earning more than they did running their own business, says People Department Lead Danish. “While they bring some skills and understanding of wood, the factory exposes them to scientific processes and mechanized, error-free manufacturing.”

With the onboarding of members of the manufacturing community, the Furniture and Fittings Skill Council (FFSC) of the Union government has well-thought-out training modules that will benefit more and more self-employed carpenters. I.EVO is a member of the Steering Committee (for training expertise) and an active participant in the programme to train the selected candidates for the World Skills International competition coming up in Russia later this year.

The training is not limited to machines and carpentry, Danish notes. It involves techno-commercial and management skilling programmes, to meet the acute shortage of qualified professionals in the industry. “The aim is to train technology leaders, future managers and marketing professionals for the entire industry in India,” he says.

Mind games

What were the obstacles the young entrepreneurs, newcomers to furniture-making, had to overcome? There was a huge wall to overcome in terms of the mind sets of technology and material suppliers, as well as specifiers such as architects and project consultants.

“Until recently, everything was geared towards the retail market. There was no thought by panel manufacturers and hardware suppliers to cater to organised, factory-made furniture manufacturing by OEMs in the country,” recalls Saurabh.

Even the working methods of furniture designers, interior decorators and architects were skewed towards projects being manually executed onsite by freelance carpenters. The decisions of many were clouded by consultants and the lobby of suppliers. This has somewhat changed to accommodate OEMs, Saurabh adds.

“Product definition is not a habit among Indian designers, manufacturers or consumers,” the Managing Director notes. “So furniture making keeps changing all the time for each project in terms of raw material, design and execution.”

Then there is the government machinery that eyes all businesses with suspicion, says Manan. “While the bureaucratic attitude is slowly changing for the better, it will take time before they understand that there are players who are law-abiding tax payers and aspire to grow their businesses by ploughing back the profits to make it grow – the days of hoarding (black) money are gone,” he emphasizes.

Government must allow businesses to act freely, especially if it cannot help the furniture industry through policy intervention, or financial support, or business incentives, Manan believes.

India story

What next, for I.EVO and Indian industry? The company has plans to expand manufacturing capacities in the near future – but more on that at the appropriate time! Its

focus will continue to be the hospitality sector, in India and abroad. But the immediate plan is to become a bigger OEM for brands in furniture retail, says Rahul.

While I.EVO is already manufacturing for more than three well-known brands, the management plans to take it to higher levels, and is soliciting collaboration to that effect, the CEO adds (email Rahul rahul@ievo.co.in).

On the India story, the promoters are excited and gung-ho. “India needs hundreds of good factories to meet domestic demand. The industry needs to get organised and regulated first,” Manan emphasizes. “We need scientific and process-driven manufacturing. The ‘organised chaos’ in which we function is self-limiting.”

Agreeing with the prognosis, Saurabh says, “India imports 90% of its furniture needs from China and South-East Asia. Given the potential in the market, woodworking can become the single-largest employment generator in the years to come. It can become the basic building block in the ‘make-in-India’ story.”

Already many American and European customers are looking to India as a substitute to China as a sourcing hub, Astha reiterates. There should be a conscious call to the country to earn a reputation as a high-quality supplier.

The company’s CEO, Rahul concludes: “As Indian manufacturers, instead of competing with each other we need to collaborate for organised working, setting standards, skilling and best practice sharing. It is not just ‘hard work’ or ‘smart work’ but ‘teamwork’ that we need today to compete and rise in the world market.”

4 I.EVO began with an “experiential laboratory”, and now has a spanking new factory covering 1,10,000 square feet on the outskirts of Udaipur.





Interzum 2019 is all about functionality and finishing

1 *Interzum 2019 will present product solutions for interior architecture and furniture design of tomorrow.*

In May this year, the future of furniture production and interior construction begins again in Cologne (Germany). Interzum (21-24 May) inspires the global furniture supplier industry.

This is where decision makers, opinion leaders, disseminators and trend-setters from all over the world keep up with the innovations in the sector, seek out and establish new contacts. This leading international fair attracts more than 1,700 exhibitors to impress an anticipated 70,000 visitors from over 150 countries.

Exhibitors present their innovations across 1,90,000 square metres of exhibition space.

What's coming next? Divided by theme into three topic areas, the event is optimally

organised to make trade fair attendance a success, because its structure brings the stakeholders in the value chain into close contact – and gives exhibitors and visitors alike a good overview.

The largest exhibition area at Interzum 2019 will be occupied by the 'Function & Components' product segment. In Halls 3.2, 4, 5, 7 and 8, the industry will show how customers' increasing demands in the areas of technology, energy efficiency, comfort and convenience can be fulfilled.

These points will be addressed by the product segments of light and lighting systems, semi-finished products for storage, kitchen, office and frame furniture, fittings, locks and furniture components.

Even more convenient, individual, digital and connected – these are the expectations for the interiors of the future, and this is the reason why solutions to these requirements will be the focus of attention in the technical and functional components segment.

Materials & nature

The conservation of resources, sustainable raw materials and cradle-to-cradle concepts – these are but a few of the trends addressed in the Materials & Nature segment in Halls 4.2, 6 and 10.2.

This is where a comprehensive presentation of versatile materials for furniture design will again be offered, including wood, veneer, parquet, interior design and furnishings, decorative surface design, decor papers, laminates, wood-based materials, high-pressure laminates, solid surface materials, edge trims, surface treatments and finishes, embossing cylinders and sheet metal.

There will also be climate-regulating upholstery fabrics, energy-efficient cutting machines for foam materials and leather that make optimal use of materials, weather-proof outdoor fabrics.

Success comes from innovative ideas, high-performance materials and ultra-efficient processing by means of advanced technology and machines. In the Textile & Machinery segment in Halls 9, 10.1 and 11, the quality

leaders and innovation drivers from across the entire value chain will again be presenting their latest developments.

These include machinery for upholstery and mattress manufacture, upholstery materials, upholstery accessories, materials for covers, leather and adhesives. In a new development for 2019, Hall 10.1 will serve as a central connecting hub for the Textile & Machinery segment, reinventing itself in terms of structure.

Mega trends

With a range of special exhibitions, the trade fair also explores global mega trends such as individualisation, mobility and digitalisation. The leading industry platform is thereby an important source of inspiration for designers, architects, product developers and other planners.

With the newly established ‘Tiny Spaces – Living in Compact Homes’ piazza, Interzum is addressing a highly topical issue. Living space is becoming increasingly scarce in the world’s congested urban areas, with rents continuously rising.

How comfort can be combined with small living spaces is and will remain a highly relevant issue - and not only for the interiors industry. Interzum has attracted a range of high-profile companies to appear in the piazza: Atim, Blum, Hettich, Hommel, Hafele ▶



2 The broad spectrum of potential uses of digital printing will be shown in a demonstration of design to finished furniture.



3

3 The trade fair in Cologne offers a comprehensive presentation of versatile materials for furniture design, including wood, veneer, parquet, laminates, edge trims, surface treatments and finishes.

and Pessotto will present their responses to the specific requirements of living in tiny spaces.

The 'Disruptive Materials – Changing the Future' piazza at the upcoming event will be devoted to these materials and production methods. The Berlin-based trend forecasting agency, Haute Innovation, will showcase some of the latest materials innovations and disruptive technologies at the trade fair.

The exhibition will be divided into four main areas: biological transformation, resource efficiency and sustainability, digital and smart materials, and production-related materials innovations. It will feature over 100 exhibits across roughly 400 square metres.

Wood design

The 'Trends in Surfaces & Wood Design' piazza in Hall 6.1 will present product solutions for interior architecture and the furniture design of tomorrow. It will highlight how innovative surface materials broaden the range of options available to the industry.

The piazza is divided into sections addressing the key words "Sustainability", "Customised", "Haptic", "Light-weight", "Digital Printing", "Anti-Fingerprint" and "Wood & Stones". Related product groups, such as furniture handles or upholstery and decorative fabrics, will be presented.

Visitors will have the opportunity to experience innovative solutions for life in mobile living environments. All the trends in the mobile sector are highly relevant to Interzum because new materials and innovations in function, machinery and lightweight design are required to put them into practice.

How can the expectations of furniture production and interior design be served by means of digitalisation? Interzum 2019 addresses this question with exhibitors showcasing a product or service they offer, or a best-practice example from their everyday business.

Printing technology

A special area in Hall 3.2 has been dedicated to the subject of digital printing as a complement to the piazza. The broad spectrum of potential uses of digital printing will be shown in a demonstration ranging from the design concept to the finished piece of furniture and thus including all the important process steps required for the integration of this ground-breaking technology into furniture production and interior design.

The entire process will, therefore, be shown – from the choice of decoration and its transfer into the computer programs to the actual printing stage and the subsequent finishing step. There will also be a presentation of a selection of leading specialists in the field.

In this way, visitors will discover how digital printing technology can be integrated into their processes, what process steps have to be taken into consideration and what expertise is available.

Koelnmesse is the world's top trade fair organiser for the areas of furnishing, living and lifestyle. At the trade fair hub in Cologne, the leading international fair IMM Cologne, as well as LivingKitchen, Orgatec, Spoga+Gafa, Interzum and Kind+Jugend rank among the internationally renowned and established industry meeting places.



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Ligna 2019 focuses on 'smart' surface technologies

Surface technology is one of seven main display categories at this year's Ligna as the world's biggest trade fair for wood-based furniture production gets underway in Hannover (Germany), from 27 to 31 May. More than 130 exhibitors will be running showcases in this section in Halls 16 and 17 and parts of Hall 15.

1 *Matt surface finishes are now not only fingerprint-resistant they are self-regenerative, with unwanted glossy patches simply "disappearing" overnight.*

The show this year will feature more than 1,500 exhibitors from 50 nations, who collectively will occupy over 1,30,000 square meters of net display space.

The growing customer demand for individualisation and uniqueness is also making itself felt in the furniture and flooring industries, and manufacturers are rising to the challenge with a growing array of smart Industry 4.0 solutions.

Among exhibitors showing their solutions at their own stands and presenting them directly to surface tech-minded visitors at Ligna are:

Paint specialist Adler (Hall 16) will be presenting its Bluefin Pigmosoft product for flawless matt surface finishes. The product is fingerprint-resistant, and its innovative self-regeneration technology means that unwanted glossy patches simply "heal" and disappear overnight.

The secret to it all lies in this new water-based two-component furniture topcoats special raw material technology. Because of its superior resistance to shine, the paint can withstand frequent contact without losing its perfect matt finish.

AkzoNobel wood finishes (Hall 17) will be presenting a new technology that promises to ▶

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eliminate overspray on edges. It enables more targeted application of 1K, 2K and even UV-cured paints on furniture edges in production-line manufacturing.

The technology can spray paint, whether clear or pigmented, onto substrates of any type and of widths ranging from 1mm to 50mm, without any overspray. This saves paint and the cost of cleaning up overspray.

The paint application process is very fast, supporting production-line throughput rates of up to 100 metres per minute.

Pressing and surface finishing specialist Robert Burkle (Hall 17) is doing its part to give furniture manufacturers greater flexibility and scope for product customisation. Burkle has developed a roller coating solution that enables it to be used on formed, non-flat furniture parts with four paintable sides and tapered ends.

The paint rollers are repositioned by means of servo-motors, and the system enables continuous coating without paint tearing. The process uses an intelligent transport system that feeds multiple work-pieces through the roller-coating machine in parallel while keeping them reliably in the correct position.

Cefla Finishing (Hall 17) will be showcasing the latest in 3D digital printing with its new J-Print TD single-pass printer. Thanks to its special ink, the printer is a reliable and cost-effective means of embossing positive and negative relief effects on wood and other panels in a single pass.

The J-Print TD employs a system which circulates the ink through the print heads, thus reducing the frequency of cleaning cycles. With its specially designed ink reservoirs and automatic control of all critical parameters, including temperature, flow and circuit pressure, the printer delivers optimal ink management.

The Giardina Group (Hall 16) is using Ligna to present its 'GST ZeroGloss' dryer for liquid surface finishes in the wood and furniture industries. The dryer is an innovation that builds on technologies that are already tried and proven in other industries.

It uses Excimer UV curing technology to achieve super-matt surface finishes with higher resistance to chemicals and physical abrasion than conventional matt surfaces.

Homag (Hall 14) has lined up a comprehensive range of surface finishing products and solutions, including spray coating machines, various categories of sanding machines, solid-wood planing machines and a range of innovations in lamination.

For liquid surface coating, Homag will present the latest incarnation of its Sprayteq S-100 spray coating machine for surface, profile and window coating applications. For lamination applications, Homag will showcase its Lamteq F-200 laminating plant, complete with innovative handling system.

Hymmen (Hall 26) will be at Ligna with its automatic colour calibration, fully integrated inline image optimisation system for

2 *Ligna 2019 will stay true to its promotion of forestry technology and machinery.*



industrial digital printing in its Jupiter digital printing lines.

Furniture and flooring manufacturers have long had the ability to reliably print decorative patterns of consistently high quality, but only for 80% of commonly used pattern types. Now Hymmen is able to guarantee the same long-term colour and production stability for even the most challenging of decorative patterns.

Industrial surface treatment with Kleiberit's (Hall 15) hot-coating technology has several advantageous properties that are fundamental to a steadily growing range of interior and exterior applications. These properties include extremely strong adhesion to a wide range of materials, the PUR layers' flexibility, and extreme resistance to alternating climatic conditions.

Makor (Hall 17) will be championing the Industry 4.0 cause with machines that are more flexible, more efficient, easier to operate and feature smarter control technology.

Showcase highlights include smart work-pieces with RFID chips that automatically configure the coating plant, automated, robotic paint application systems that enable rapid colour changes with reduced paint wastage, and Makor's partnership with Tapio, which integrates software on the machine control panel.

Sames Kremlin (Hall 17) will be showcasing its innovative use of the vortex effect in spray painting. The technology uses special PEEK vortex inserts in the spray nozzle to generate a vortex (helix) in the atomised paint stream.

This reduces the velocity of the paint particles, enabling the paint to more effectively reach hollows and cavities in complex-shaped work-pieces. The Vortex air shroud accelerates the paint particles in the same manner as an air-spray gun.

SCM (Hall 13) will focus on industrial solutions that can be used to produce a wide range of 3D finishes, including wave designs, hand-smoothed, embossed, saw-cut and wormhole effects, which have the power to spark authentic tactile and visual user experiences.

Venjakob will be there (Hall 16) with its Ven Profit solution that uncouples factory data capture from control platforms, thereby enabling the data to be stored in local networks or in the cloud.

Wintersteiger (Hall 27) will demonstrate how its TRC Manufactory technology can create authentic rustic-style flooring with genuinely unique, non-repeating visual and tactile characteristics.

Weinig (Hall 27) will display a complex production ▶

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3 *Software interfaces can define and manage cutting, milling, drilling, edge banding, assembly and packaging.*

line comprising eight integrated components in action. The stand will run daily demonstrations that showcase the entire production process, from raw material to finished product.

Schmalz (Hall 16) will be showing a VCBL-G K1 vacuum block that has been especially designed for nesting tables. Nesting makes it possible for work-pieces of any shape to be arranged with the help of a nesting map, resulting in minimal cutting waste.



4 *As usual the component of panel manufacturing technology, equipment, expertise and services will remain strong at the Hannover trade fair.*

The vacuum block can be directly positioned on the top of the CNC machine's grid table without having to remove the table top first. This means the user does not need to set up the machine, which avoids long downtimes.

The Control 4.0 smart CNC aggregate developed by Atemag (Hall 12) captures production parameters and transmits the data in real time to the machine controller. It can also intervene in the production process itself – to increase output by adjusting speed and feed rate.

With its B-Cabinet-4 software, Biesse (Hall 11) has developed a solution that can manage all stages of furniture production, from 3D design to monitoring the entire production flow.

The software has a special interface where users can define and manage all processing

stations and work steps required for each order. That includes everything, from cutting, milling, drilling and edge banding through to assembly and packaging.

At the Wemhoner stand (Hall 26) visitors will be able to see first-hand how logistics concepts are integrated into modern manufacturing plants. The highlight of the overall showcase is a VR model of an integrated manufacturing plant comprising a raw panel and wrapped pallet storage rack, two short-cycle laminating lines and a panel stack packaging machine.

The Proto-Lab research project by Rosenheim University of Applied Sciences (Hall 11) is all about finding practical ways of enabling companies to take a gradual, step-by-step approach to digitization and automation. The university will demonstrate a complete production process comprising digital assistants, smart robotics solutions and a logistics system featuring automated guided vehicle technology.

Gewema (Hall 12) is showcasing the world's first heavy-duty wooden CNC router for professional users. It is an automated solution that can easily realize just about any custom project – no marker pencils, rulers or T-squares required.

The F4 Solutions suite of programs developed by the Felder Group (Hall 13) offers solutions for furniture production and interior design, nesting optimisation, window and door production, 3D free forms and stairs and staircase construction as well as smart post processors.

At Microtec's 'Sawmill of the Future' (Hall 25) every piece of lumber receives a unique digital fingerprint, which enables it to be traced back all the way to the original log. A combination of different Microtec technologies makes this possible.

These include computed tomography-based sawing optimisation system; an X-ray log scanner for log identification and rotation angle evaluation; a scanner for rotation angle monitoring; and a multi-sensor scanner for lumber identification and quality grading.

Beck Fastener's LignoLoc wooden nails (Hall 13) are made of locally grown beech wood and can be fired into solid timber or engineered wood without pre-drilling using the LignoLoc pneumatic nail gun. The energy released during firing "welds" the nail to the substrate, creating a seamless permanent bond.



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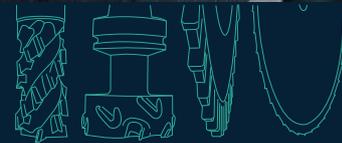
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DelhiWood: 360-degree view of global trends

The 2019 edition witnessed an impressive participation of 527 exhibitors and attendance of more than 27,000 visitors over 4 days

DelhiWood 2019 concluded successfully at the India Expo Mart and Centre in Greater Noida with more than 527 exhibitors showcasing their latest products on 42,000 square metres of display space.

The 4-day exhibition (13-16 March) provided participants with insights into the latest trends and innovations in furniture production, woodworking machinery, interior design services, diverse building engineering services and the ever-growing woodworking industry.

The Indian furniture industry covers the entire gamut of activities, from sourcing, manufacturing and distribution, to sales and after sales. Visitors from furniture manufacturing companies are driven by the designs chosen, the inputs which come from in-house designers and market feedback.

Manufacturers consider several aspects related to the customer, including lifestyle, demography and aspiration, raw material type, its quantity and availability.

The other factors that come into play are: internal capability with expertise, quantity and availability of labour, production process complexity, delivery time for developing different designs. These also determine the furniture's functionality, look and feel and value.

Innovation demand

Innovations and trends were particularly in demand among visitors at the show. The 2019 edition of DelhiWood witnessed 527 participants from 35 countries spread across 11 country pavilions. The show offered a 360-degree view on global trends from the woodworking industry. ▶



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These pavilions provided a great opportunity for domestic manufacturers, SMEs and traders to ideate, network and get an understanding of current trends.

Furniture and kitchen manufacturers, architects, interior designers, timber traders, saw millers, builders, contractors, hardware distributors, dealers from all over the country and neighbouring countries such as Nepal, Bhutan, Sri Lanka, West Asia and other international countries participated in the industry event.

Association Support

DelhiWood saw participation from many international associations: the American softwood and hardwood from USA, Canadian Wood and Swedish Wood. The Japan Wood Association was among first-time participants. The encounter of worldwide experts once again provided the opportunity to learn and collaborate across borders.

DelhiWood 2019 was inaugurated by Mr Peter Ottmann, CEO of NürnbergMesse, Mr Jürgen Köppel, President of Eumabois, Mr Pradeep



Devaiah, CEO of PDA Trade Fairs, and Ms Sonia Prashar, Managing Director of NürnbergMesse India, along with key industry stakeholders.

“The exhibition is the biggest ever woodworking industry show in India and is expected to bring major traction for India, which has over US\$ 30 billion organised woodworking industry,” said Sonia.

Jürgen says “DelhiWood is an essential event for the Indian woodworking technology market and for the neighbouring countries too. All major local and European manufacturers are attending the exhibition and the number of visitors is always significant and constantly increasing.”

Peter commented: “The event covers an important sub-segment of the furniture industry and creates valuable synergies for our exhibitors and visitors. It is therefore the ideal complement to our Indian woodworking trade fairs.”

According to the World Bank, India’s organised furniture industry is expected to grow 20% ▶

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Booking open for MumbaiWood

Bookings are now open for MumbaiWood, which will take place at the Bombay Exhibition Centre from 17-19 October this year and IndiaWood, which will take place at the Bangalore International Exhibition Centre from 27 February to 2 March, 2020.

For bookings, contact Mr Belliappa MK (+91-9916092922; email bellappa.mk@nm-india.com) or Mr Pradeep Kumar Gopal (+91-9986066910; email pradeepkumargopal@nm-india.com).

per annum over the next few years and is projected to cross US\$ 32 billion by 2019.

Growing market

Online home décor market in India is projected to grow at a CAGR of 50.42% in revenue and the luxury furniture market is expected to garner US\$ 27.01 billion by 2020. The range of indigenous furniture available in India includes both residential and contract system furniture.

Manufacturers in India usually use a three-tier selling and distribution structure, comprising of the distributor, wholesaler and retailer. The market is mainly concentrated in A, B and C category cities (the top 589 cities). A and B type cities together constitute 33 per cent of the total market.

Even as DelhiWood has, over the last five editions, come up as the largest industry-specific event for furniture and wood-based manufacturing industries, some of the

highlights at 2019 fair included an international Timber Forum, which brought together furniture manufacturers, builders, architects, interior designers, civil engineers etc. on one platform for exchange of ideas.

Skill demonstration for small furniture manufacturers, carpenters and craftsmen was also arranged in association with the Furniture and Fittings Skill Council (FFSC). “Delegates from the Ministry of Skill Development and Entrepreneurship (MSDE) and the world skills team from National Skill Development Corporation (NSDC) also graced the occasion,” said Sonia.

Save the dates:

MumbaiWood: 17-19 October, 2019: Mumbai, India

IndiaWood: 27 Feb-02 March, 2020: Bengaluru, India

Holz-Handwerk: 18-21 March, 2020: Nuremberg, Germany

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CIFF-Guangzhou earns more feathers in its cap

Sets records for exhibitor and visitor turnout, business is brisk, and trends are international

1 *Design took centrestage at the Guangzhou show, with events and seminars outlining new trends and inspiring designers and manufacturers.*

The 43rd edition of the China International Furniture Fair (CIFF) ended in Guangzhou in March this year, setting records in participation by exhibitors (4,344) and trade visitors (2,97,759), spread over various events, in two stages spanning 8 days.

Visitors from all over the world – notably Indian traders and manufacturers, numbering only less than the Chinese! – had 7,60,000 square metres of display space to explore.

What was the best proof of the importance and popularity of the show? There were times where the aisles and stands were so crowded that movement was reduced to a crawl.

Some exhibitors stated they had signed orders at the fair for 60% of their annual turnover; and still others had received orders for 500 containers of goods in just two days of the show!

The first phase (18-21 March) was dedicated to home furniture, home decor and home furnishings, as well as outdoor and leisure

furniture. The second phase (28-31 March) focused on office furniture and furniture for public spaces, as well as machinery, materials and components for furniture manufacturing.

International technology and material suppliers were out in strength; but Chinese machinery manufacturers matched product for product – and often offered customised solutions to special problems.

Events galore

There were dozens of design events and seminars covering various aspects of the furniture market, which also outlined new trends and inspiration for designers and manufacturers.

The presence of more than 60 well-known Chinese designers encouraged effective interaction with visitors and provided new stimuli on how the design of products and environments may improve the quality of life.

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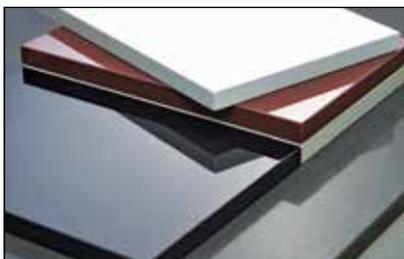
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2 The Office Show presented the most innovative trends in contemporary work.

2

buyers from all over the world, there were hundreds of interior designers, from China and abroad, who were interested in finding new and higher quality standards for both home and work environments. This made it a truly international event in terms trends and quality standards.

Nearly 90% of the exhibitors showcased brand-new design collections, as compared to its predecessor, CIFF-Shanghai, in September 2018. And, according to the organisers, more than 50 companies organised on-site launch events.

The Office Show presented the most innovative trends in contemporary work environments, more and more informal and suitable for domestic environments, besides dedicating great space to furnishings for hotels, healthcare institutions and for the elderly.

For the first time, the nearby Nan Feng International Convention and Exhibition Centre was requisitioned to host and present smart office solutions.

Interzum-Guangzhou focused on intelligent technology and other new developments in the field of furniture manufacturing. It hosted world-renowned brands that presented cutting-edge technological solutions by providing a complete view of global manufacturing trends.

The 44th edition of CIFF will be held in Shanghai-Hongqiao from 8 to 11 September, 2019. Another opportunity to explore China as a reliable supplier!



3

3 Chinese machinery manufacturers matched product for product, and often offered customised solutions to special problems.

4

4 Several exhibitors showcased brand-new design collections; more than 50 companies organised on-site launch events.



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Mattress tech expo to feature alongside IndiaWood 2020



NürnbergMesse expands its trade show portfolio to 16 events

NürnbergMesse's international programme of trade fairs continues to gain momentum. Following the acquisition of the three market-leading fairs for the woodworking and furniture production industry in India in 2018 – IndiaWood, DelhiWood and MumbaiWood – the company has now added another exhibition to its portfolio.

By adding the IME to the next round of IndiaWood we are pooling the entire expertise of the market in one place.

– Ms Sonia Prashar, MD, NürnbergMesse India.

The India Mattresstech Expo (IME) is India's dedicated trade fair for mattress and upholstery manufacturing. "The IME covers an important sub-segment of the furniture industry and creates valuable synergies for our exhibitors and visitors," says Mr Peter Ottmann,

CEO of NürnbergMesse Group. "It is, therefore, the ideal complement to our Indian woodworking events."

For his fellow CEO, Dr Roland Fleck, the acquisition also represents another chapter in the success story of NürnbergMesse India: "The Indian economy is booming. With this latest member in our trade fair portfolio, NürnbergMesse India is yet again reinforcing its position as one of the leading exhibition organizer on the Indian sub-continent."

The acquisition of IME is an important step for NürnbergMesse, as the Indian furniture industry offers good prospects for the future. In 2015 the domestic furniture market was

estimated at US\$ 18 billion, and by 2027 it is expected to reach US\$ 27 billion.

Progressive urbanisation, rising incomes and an increasing appreciation of high-quality bedding products are benefiting the mattress industry. The Indian business analytics company, CRISIL, forecasts an average annual growth rate for the segment of 10% for the period 2017 to 2021, with sales set to increase to around US\$ 2.08 billion.

In South Asia, the IME is the platform for mattress and upholstery manufacturers, dealers and distributors. Alongside machinery and equipment for the production of mattresses and upholstery, the trade fair also showcases bed systems.

The IME took place for the first time in Chennai in 2013 and was previously owned by Unitech Exhibitions Pvt. Ltd., which has been organising national and international trade fairs and conferences since 2001.

Under the umbrella of NürnbergMesse India, the IME Expo will celebrate its premiere from 27 February to 2 March, parallel to IndiaWood 2020 in Bengaluru.

"By adding the IME to the next round of IndiaWood we are pooling the entire expertise of the market in one place – and therefore are offering our customers genuine added value specifically for the wood processing and furniture production industry," says Ms. Sonia Prashar, Managing Director of NürnbergMesse India.

"The thematic proximity of the trade fairs, paired with a concept tailored to the local market, reinforces the position of our exhibitions and therefore offers us the best conditions for the future," she says.

"The economy in India is developing brilliantly. This offers the best prospects for NürnbergMesse India and the Indian market is becoming increasingly important for the international exhibition industry as well," stresses Prashar.

For bookings, contact Kalyan STV (+91-7619163082; email kalyan.vedant@nm-india.com) or Pradeep Kumar Gopal (+91-9986066910; email pradeepkumargopal@nm-india.com).



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AHEC seeks to tap Rajasthan exporters

The American Hardwood Export Council (AHEC), the leading international trade association for the American hardwood industry, along with representatives from two member companies and from the Indiana State Department of Agriculture, travelled to Jodhpur (Rajasthan) in order to conduct a series of factory visits and to hold a ‘mini-convention’.

Following a successful showing at DelhiWood, the American delegation flew to Jodhpur in April and spent 3 days meeting with leading manufacturers, understanding their challenges with regards to their timber requirements, and exploring new opportunities for American hardwoods, particularly for products destined for exports.

AHEC and the Jodhpur Handicrafts Exporters Association (JHEA) hosted around 200 manufacturers at a seminar and networking event, which was opened by the Minister of State for Agriculture, Gajendra Singh Shekhawat, who highlighted the important contribution of the furniture and handicrafts sector to the Rajasthan economy.

AHEC experts gave presentations on all aspects of American hardwoods, displayed samples of the major species, and answered questions on lumber grading, kiln-drying, environmental credentials and applications.

The event also provided a perfect forum for the Jodhpur handicrafts sector to meet members of the US hardwood industry in person and to discuss ways of working together.

The team visited the leading furniture manufacturers in Jodhpur, all of who currently use significant volumes of hardwood lumber for the production of furniture and handicrafts, almost exclusively for export to the US, Europe, Australia and West Asia.

More recently, they have had to deal with the challenges of decreasing traditional sources of wood supply, and a strong focus on avoiding any wood products that might come from illegal sources in the main consuming countries of North America and Europe.

According to AHEC, an effective strategy to overcome these challenges is to manufacture products from American hardwoods, which are not only abundant but backed by an assurance of legal and sustainable production, which is already well recognized in the main consumer markets.

“There is absolutely no doubt that India offers massive potential for the consumption of American hardwoods across many different sectors and both for domestic and export manufacturing. Jodhpur is just one centre for the production of wooden furniture and handicrafts. There are others in Rajasthan, as well as in other states,” said Mr. Roderick Wiles, AHEC Regional Director.

While US hardwood exports to India remain very low relative to the potential size of the market, awareness is increasing, perceptions are changing, and demand is on the rise.

“AHEC believes that this is a key time for the industry to redouble its efforts in India and to try to capitalize on what could be a turning point in the market,” he added. (www.americanhardwood.org).



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Furniture fans flock to Milano fair again



1 *The 6-day event attracted 2,400 exhibitors and recorded a footfall of 3,86,200 visitors.*

The 58th edition of the Salone del Mobile, Milano, ended on a high note, both in terms of turnout and in terms of quality of trade relations, a testament to the power of attraction and inclusiveness of all the fairground pavilions right from the very first day.

The 3,86,236 attendees, over the 6 days, from 181 different countries made for a 12% increase over the 2017 edition, which also featured Euroluce and Workplace3.0.

This Salone was also testament to the fact that the combination of business culture, brilliant Italian skills and the ability to work as a team is a recipe for excellence.

The presence of high-ranking government and institutional figures was concrete proof of the Salone's standing as one of the drivers of the Italian economy, thanks to the fruitful relationship between businesses, the city and region that it manages to generate each year.

More than 2,400 exhibitors, 34% of them from 43 foreign countries, were split between the Salone Internazionale del Mobile, the international furnishing accessories exhibition, Euroluce, and Workplace3.0, including 550 designers who took part in SaloneSatellite.

Exhibited products included bedrooms of all types, beds, wardrobes, partitions, dining and living room furniture, children's furniture, and furniture made from rush, rattan, leather, glass and stone.

The 30th, record edition of Euroluce proved a real crowd-puller, featuring integrated and smart lighting, increasingly design-focused. Aqua, Leonardo's Water Vision, was also a huge attraction, averaging over 2,000 visitors a day.

It was a unique event, a site-specific immersive installation harnessing a mixture of design, technology and special effects to provide an

original and contemporary narration of Leonardo Da Vinci, the designer par excellence.

Two particular occasions served to underscore the Salone's connection with the city of Milan and its strategic partnership with the Municipality and with the Teatro alla Scala Foundation – the latter is set to run until 2021, when the Salone del Mobile celebrates its 60th anniversary.

The next edition will be held in Milan from 21 to 26 April 2020.

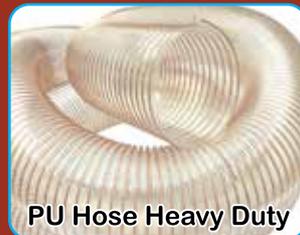
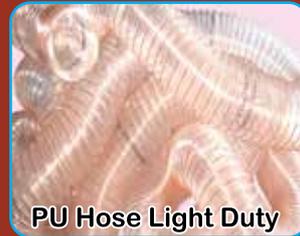


2

2 *Euroluce proved a real crowd-puller, featuring integrated and smart lighting.*

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Malaysia draws up ambitious plan to expand market reach



1 *Tropical hardwoods exported by Malaysia are a big draw for Indian furniture manufacturers.*

For the year 2019, the fairs identified by the Malaysian Timber Council (MTC) for participation with Malaysian manufacturers are DelhiWood for timber products and Furniture China in Shanghai for furniture.

MTC is also organising the inaugural Malaysian Wood Expo (MWE) in Kuala Lumpur from 19-21 November. The MWE, the first true coming together of top exhibitors in this part of the world, is jointly organised by MTC and Panels & Furniture Group of wood magazines.

Under marketplace promotion, MTC is targeting a total of 17 international fairs in various countries, such as the Malaysian International Furniture Fair and Export Furniture Exhibition (Malaysia), Buildex Vancouver (Canada), National Wood Flooring Association Expo (USA), Korea Build (South Korea), Interzum-Guangzhou (China), Japan Build Osaka (Japan), Bouwbeurs (The Netherlands), Batimat (France), Dubai Woodshow (UAE), World Build India (India) and Sri Lanka Wood International Expo.

Office in US

“These activities will be organised and coordinated by MTC personnel from MTC headquarters in Kuala Lumpur, as well as our regional offices covering Europe, West Asia, Africa, as well as East and South Asia,” said Mr Richard Yu, CEO of MTC.

He added that MTC will be opening an office

in the USA later this year to cover the markets in the Americas.

Besides market development and promotional programmes, MTC will also be organising a series of talks, seminars and conferences, such as the second edition of the Malaysian Timber Conference to be held in July in Kuala Lumpur.

To highlight some of the latest developments in the woodworking and wood processing technologies to Malaysian wood products manufacturers, a Technology Acquisition and Study Mission to Guangzhou (China) is also on the cards.

A Resource and Business Mission to Sweden and Finland for Malaysian wood-based manufacturers to source for Spruce and Pine is also in the works.

Promoting timber

The second edition of MTC's exchange programme of overseas suppliers and Malaysian importers and manufacturers will be organised in November, in conjunction with MWE 2019. Through this business-to-business matching event, overseas suppliers of timber raw materials are invited to meet with potential buyers and importers in Malaysia.

Richard said that in line with the task entrusted by Malaysia's ministry of primary industries (MPI), MTC has over the years organised the participation of Malaysian timber companies in timber and furniture pavilions, and marketplace promotional booths in renowned international trade fairs.

Regular publications and collaterals are also available to provide information on the latest updates in the Malaysian forestry and timber industry, as well as on green development in Malaysia.

The MTC was established in January 1992 with the mandate of leading the trade promotion and marketing of timber products and wooden furniture globally, since 1998 and 2012 respectively.

More information on MTC and its programmes and services is available at www.mtc.com.my.

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Home furnishing becomes 'democratic' process



1

1 Insights gathered by the survey reflect a deeper shift in decision-making dynamics across Indian households.

India's men are extending their decision-making influence further into the home, according to new research from Godrej Interio, India's premium furniture brand in both home and institutional segments.

The male head of the household has the final say on home furnishings in nearly a quarter of Indian households (24.9%), surpassing even the influence of the female homemaker (23.1%) as the ultimate decision-maker, according to a light-hearted survey designed to understand the decision-making process behind Indians' choice of home decor.

The research highlights that in more than half Indian homes (52%), the choice of furniture has become a democratic process involving the entire family, while in 6.7% of cases it is actually the children who have the final say.

It also revealed that members of the household enjoy different levels of influence according to the room in question. In the kitchen, for instance, female home-makers have the last word on interiors in 38.1% of Indian homes, compared to just 17.1% for men.

Clear shift

A clear shift towards a type of 'home furnishings democracy' is evident in the survey; over one-in-three living room interiors are designed collectively (54.6%) where the decision-making process involves the entire extended family.

Such collective decision-making accounts for 47.3% of bedroom interiors, and 44.8% of

kitchens in Indian homes, according to the research.

The Interio Index helps shatter a few myths about decision-making within the Indian home and categorically states that the home space is no longer the exclusive domain of the women of the house.

In fact, according to research, less than a quarter of women (24.6%) have the final word on furnishings in their living or dining rooms, and less than a third (29.3%) have the exclusive choice on furniture in their bedrooms.

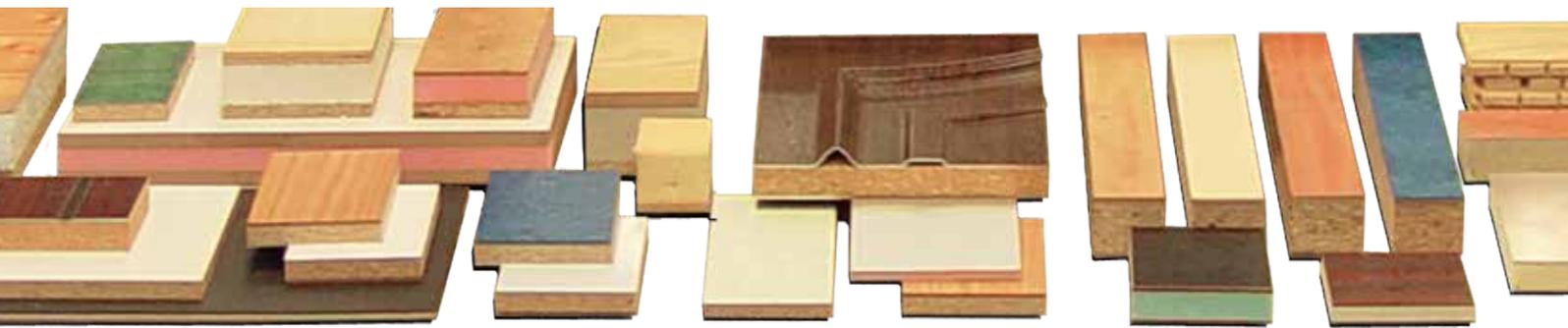
In some cases, the men are becoming active decision-makers; in India's living and dining rooms, for instance, men are making the final choice in one-in-five homes (20%).

The overall insight is that the choice of furnishings and home décor is becoming a far more collective and democratic process involving all members of the family. Men participate in decisions about designing the furniture at home while only women know the details of what is inside their cupboards.

When it comes to the bedroom, men may be increasingly influential on the choice of décor, but it's the women who know where everything is kept.

In the living room, although less than a quarter (24.6%) of the final furniture decisions are made by women, more than three quarters (76.6%) of them would actually know exactly where to find the TV remote control.

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Of time, space and eco-sensibility

Masonite International Corporation, a leading global designer and manufacturer of interior and exterior doors for the residential new construction, released 2019's top home design trends in a presentation to the American Society of Interior Designers (ASID). The six design trends are based on research prepared by Stylus, an international trend forecasting agency.

Live/Work

In the US, over 3.4 million Americans work from home at least half of the time, which accentuates the need for transitional spaces that accommodate multiple modes of function. Live/Work celebrates shared living environments with flexible design and multi-purpose products. Achieve the look with industrial accents and modern panelled doors to create a fresh, modern feel.

Rustic Luxury

Rustic Luxury is a new approach to modern luxury that favours experiences over material possessions. The trend focuses on time, space, silence and eco-sensibility as ways to disconnect from busy lives and to restore energy, balance the home's organic environment with elements like authentic wood entry doors.

Nordic Noir

The Scandinavian mantra of less is more, is here to stay. Nordic Noir keeps its minimalist roots and favours elements that are beautiful

in their simplicity. The look comes to life with muted colours of blue-grey and pale rose contrasted with dark metal and wood work. Steel doors with glass panels provide a cool, industrial feel while bringing light and warmth.

Urban Country

Urban Country applies the best practices of lifestyle and design from rural living to urban spaces. This trend preserves the unique characteristics of the home and utilizes well-crafted, handmade pieces that hold meaning. Accentuate the home's original detailing with a Craftsman-style front door that uses sidelites for natural lighting.

Pretty Calm

Female buying power continues to rise with 1 in 5 homeowners being a single woman. Spaces are being redesigned to fit the modern woman who often appreciates both contemporary and traditional design. Biophilic elements mixed with pale-hued colours, luxurious touches and textured glass doors are all key features for Pretty+Calm.

Mediterranean Escape

International travel has surged in recent years, and travellers want to bring a piece of their travels home. Owners are looking to add intricate details reflective of different cultures. Such global sophistication can be captured in wrought iron accents, lush green landscaping, warm colours and arched maple doorways.

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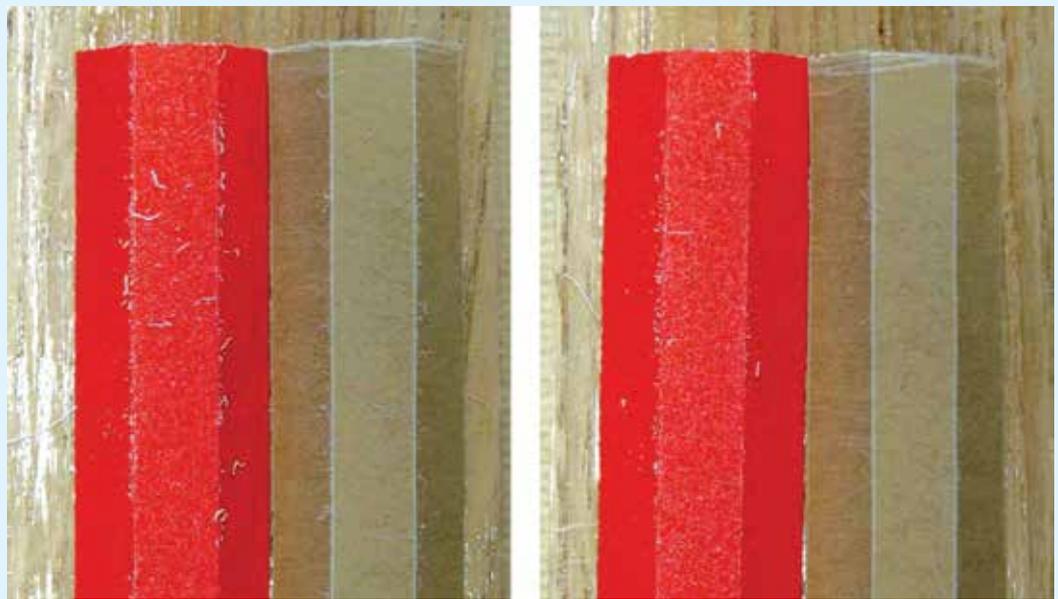
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Silica particles for durable water-borne wood coatings



When making the switch from solvent to water-borne wood coatings, the goal is to not compromise the function and performance. As per research, epoxy silane-modified colloidal silica can contribute to improve block resistance and sanding properties of water-borne clear coats.

Very few studies have been done on the use of silane-modified water-based colloidal silica particles in formulations of water-borne coatings. Recently there has been great interest in such particles in water-borne lacquers as they have shown to provide benefits like anti-blocking, sanding and wood grain accentuation in acrylic emulsion-based wood coatings.

Recent research has confirmed the effect of adding silane-modified colloidal silica to

water-based clear coating formulations on open time and on the anti-blocking, sanding and mechanical properties.

While no changes in gloss levels in comparison to a reference system without any silica particles could be found, other properties changed quite a bit. Depending on the test system and the amount of particles blocking and sanding resistance grew strongly. The best results were obtained for the test system with highest tack.

However, the effect of silica on abrasion resistance is very formulation dependent. Distribution of silica in the matrix and the degree of cross-linking of silica in the matrix are important factors; i.e. there is a big difference between one-pack and two-pack systems. <https://360.european-coatings.com>.

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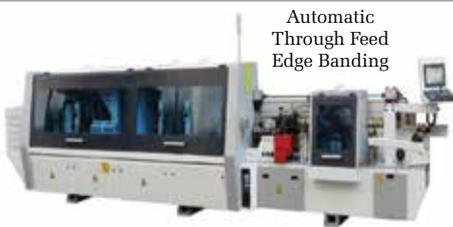
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Turning Wood Of Dreams...

Wood-fibre insulation is effective for homes



1

1 *Wood-fibre insulation panels were attached to the exterior of insulated load-bearing stud walls in the Radiance co-housing project in Saskatoon, Canada.*

The last nail driven into wood-fibre panel insulation in a home in British Columbia could mark a new standard in building construction for the Canadian home construction industry.

The non-profit forestry R&D company, FPInnovations, 475 High Performance Building Supply, and the Canadian Wood Council have partnered to build three high-profile residential projects to demonstrate the

suitability of wood-fibre insulation panels for use in residential buildings.

The panels are environmentally friendly and are expected to perform better than traditional rigid foam insulation.

The home in British Columbia is the last of the high-performance projects built to Passive House standards in the trial. Contractors used wood-fibre insulation panels imported from ▶

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Europe to insulate exterior walls. The trio behind the initiative is certain the panels can be manufactured in Canada far less expensively than in Europe, with an R-factor rating equivalent to rigid foam panels.

Dry-process wood-fibre insulation panels are the future of building insulation in Canada because the natural resources and industry are available to produce them economically. Excess fibre from sawmills can be used for their production as they offer superior performance and insulation, in addition to being environmentally safer than rigid foam insulation.

Superior performance

FPInnovations designed tests to determine the fire safety, stability, durability, and insulation rating of the panels. Wood-fibre insulation demonstrates superior fire performance compared to polymer foam insulation types that are currently used in North America.

The panels also show superior moisture management in wall and roof systems compared to polymer foam insulation. Additionally, the panels have a greater thermal mass that controls interior temperatures.

The panels are made using a dry-processing method of refining wood chips and shavings. The resulting fibre is dried, mixed with polyurethane adhesive and paraffin, formed into a continuous fibre mat, sized to desired thickness, and cured.

The panels are then milled to different sizes and edge configurations. The manufacturing

process allows for a homogeneous board from 20 to 300 millimetres thick. The panels offer R-values in the 3.5 to 3.9-per-inch-range, while polymer foams have R-values in the 4.5 to 6-per-inch-range.

Customized uses

The Collingwood renovation project adds a two-storey contemporary addition to a 150-year-old pioneer cedar log house. The Saskatoon co-housing project showcases a low cost of living through low energy use, while the B.C. single-storey prefabricated house is built to meet LEED Platinum standards. Performance monitoring instrumentation is installed onto the prefabricated wall and roof modules.

The low-cost construction methods require a thick rigid exterior insulation product and wood-fibre insulation is one of the few products that were found with negative embodied carbon. The pressed-wood fibres trap carbon and sequester it for the life of the building.

The instrumentation installed in each building consists of point moisture measurement, relative humidity and temperature sensors, data logger units, and a tactical intelligence gateway. Each home's performance is being monitored by for at least one year and meaningful results are expected by mid-2019.

Currently, wood-insulation panels are imported construction material. They can truly transform the industry because they are environmentally friendly to make, reduce onsite labour and waste, and are recyclable as well.

A N N O U N C I N G

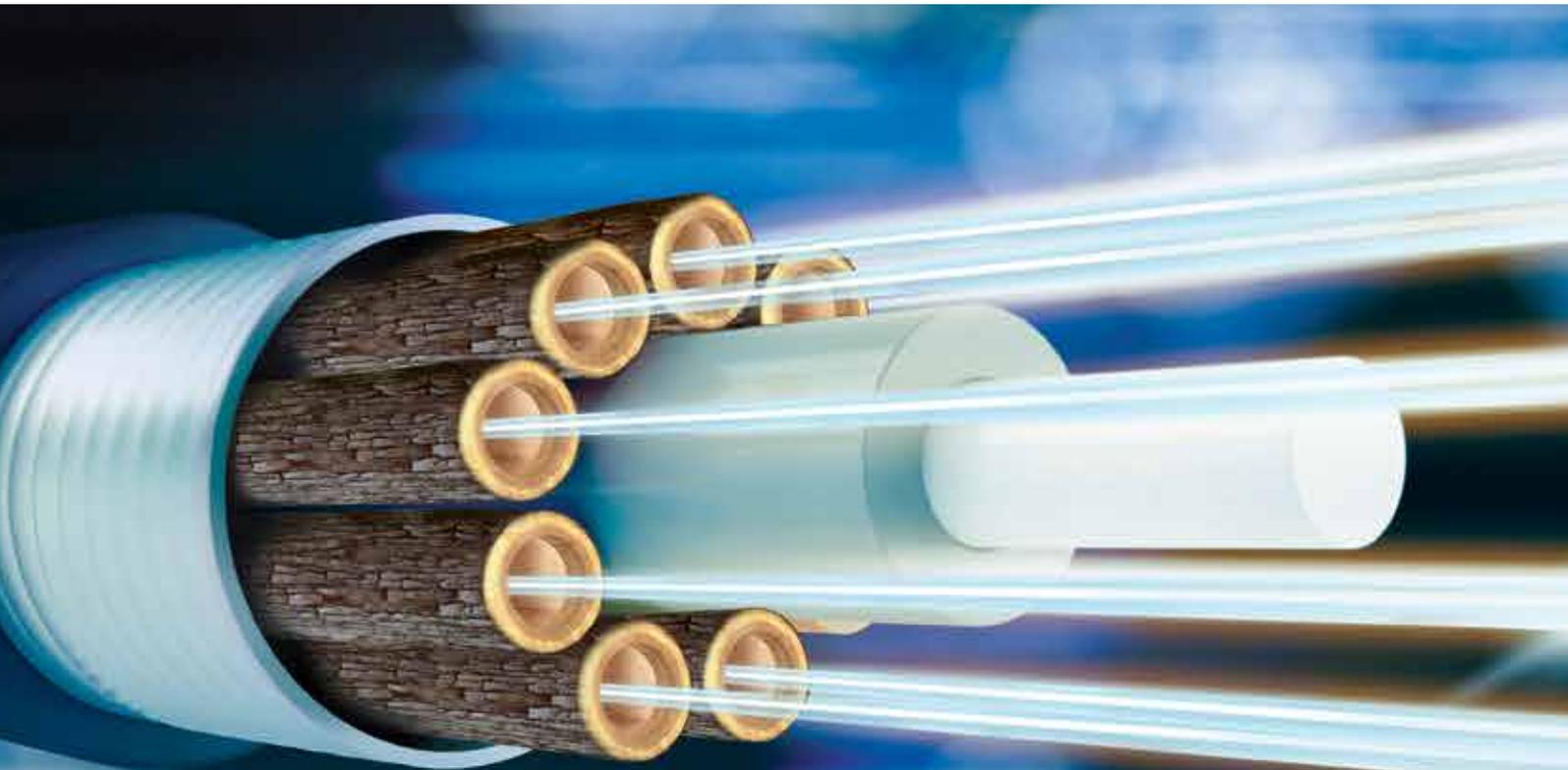
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Testing wood strength with your phone!

The Smart Thumper app for iPhones can use the phone's motion sensing to test the strength of wood by recording how much the wood vibrates. It was developed by the Mississippi State University Department of Sustainable Bioproducts.

According to Woodworking Network, it is intended to be a serious tool to make it easier to measure the strength of wood using the built-in capabilities of a smartphone.

“Smart Thumber uses the built-in microphone or accelerometer to detect vibration and estimates the dMOE of lumber and other wood sizes,” according to the instructions that can be downloaded with the app.

There are two basic testing strategies. One uses the motion-sensing capabilities of the phone to tap test the wood. The other method uses the phone's microphone to measure the sound generated when you tap the end of the wood with a hammer.

The capabilities of the app are both sophisticated and limited at the same time. They are sophisticated in the level of data you can record, save and share by email. But they are limited in that the tool is obviously designed more with construction lumber in mind.

How it works

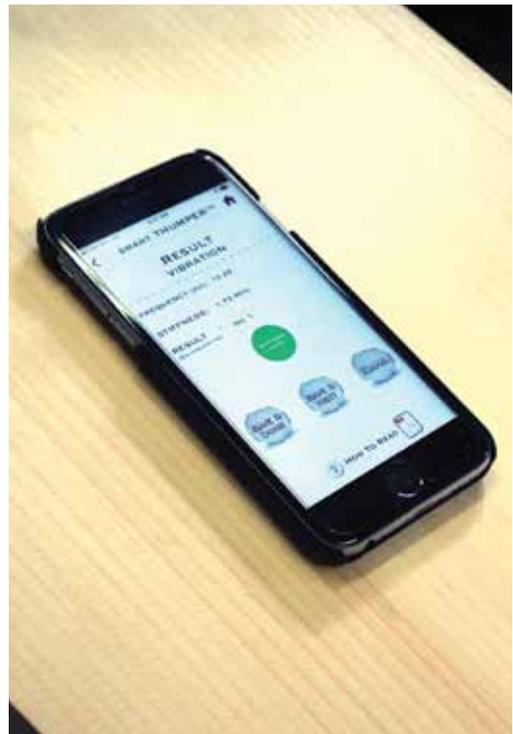
To test a board, you set it up on a couple of sawhorses according to the instructions provided. Then you measure the board as to width and depth (cross-section) and length and enter that data. You can also enter the board weight.

Because it is set up for lumber, it has built-in parameters starting with 8-foot lengths, but

you can select “other” to manually type in any length. You also are supposed to type in a wood species, but the available menu includes only common construction species such as Southern yellow Pine, Douglas-Fir and Spruce-Pine-Fir (SPF).

For vibration tests, you lay the phone in the centre of the board and tap the board with your hand to make it vibrate. For tap tests, you hold the phone off the end of the board and strike the board with a hammer.

Results are both numerical, identifying the frequency and stiffness data, and in colour-coded levels of 1-3. You can save and email all of your testing records, so you can more easily compare samples.



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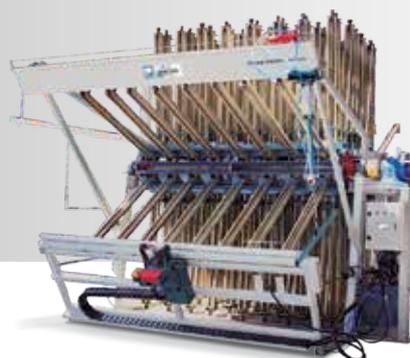
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India drives forestry through PEFC

India has become the latest country to achieve endorsement of its national forest certification system by the Programme for the Endorsement of Forest Certification (PEFC).

“PEFC endorsement is a landmark achievement for India, as we have long felt the need for such a country-specific and internationally benchmarked forest certification system,” said Mr Vijai Sharma, Chairman of the Network for Certification and Conservation of Forests (NCCF).

“Our newly endorsed national system will allow Indian forest managers to further strengthen their sustainable forest management practices, in line with global standards and multilateral requirements,” Sharma added.

The NCCF joined the PEFC alliance in 2015 and submitted the national system to PEFC for endorsement in 2017. The system was developed through a multi-stakeholder group, including forestry professionals, representatives from government, forest corporations, conservation organisations and industry bodies.

NCCF is committed to developing globally-aligned, country-specific certification systems and standards for enhancing sustainability and market access to goods and services from forests and trees outside forests.

Many benefits

“Forest certification has been accepted as an efficient tool for sustainable forest management around the world. Given that the forests of India serve important ecological, economic and social functions and provide livelihoods to over 275 million people, we should utilise certification for sustaining and enhancing these roles of forests,” said

Mr A.K. Srivastava, NCCF’s Executive Director.

Realising the importance of forest certification, India’s Ministry for Environment, Forests and Climate Change has called for buying products made from certified wood only, in order to promote sustainable forest management.

Forest-based industries also see significant benefits in the PEFC endorsement.

“Forest-based industries in India have been pushing for forest certification to enhance their access to international markets,” said Mr Sachin Raj Jain, Convener of NCCF.

“Our PEFC endorsement will help us make the Indian wood- and forest fibre-based industry more competitive globally through the production of certified products,” he added,

As the development of a national forest certification in India nears completion, the 2017 PEFC Collaboration Fund is helping to raise the profile of forest certification and grow the market for certified products within India.

The forestry sector plays a vital role in India, contributing to revenue generation, employment and foreign exchange. The paper industry alone accounts for over 2.5% of the world’s paper and employs more than a million people in the country.

However, the lack of certified forests, and therefore the lack of certified forest-based products, acts as a trade barrier to companies throughout the supply chain, particularly when exporting these products to Europe and North America.

At the same time, the demand for certified products within India is low.

This is in part due to the shortage of certified timber, but also due to limited awareness amongst both retailers and the public.

The Indian national forest certification system, which was developed by a multi-stakeholder group led by the NCCF, was launched in early 2018. Once endorsed by PEFC, the country’s forest owners will be able to achieve certification and gain access to international markets demanding certified products.

Better awareness

However, there is also a clear need to increase awareness about forest certification and develop the market for certified products within India. This will help to ensure demand for certified timber and other forest products once the first forest owners achieve their PEFC certification.

The PEFC Collaboration Fund is supporting NCCF as they launch their initiative to raise the profile of forest certification and develop the market for certified products in India.

To ensure their work is effective, NCCF will begin the project with market analysis research before conducting a stakeholder mapping exercise to identify potential industries and sectors to target.

The second phase of the project will focus on strengthening partnerships. This will include liaising with government agencies in order to promote sustainable public procurement of PEFC-certified products within the country.

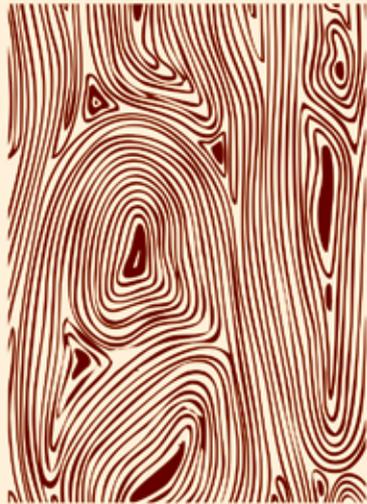
They will also target the Indian branches of global brands that are already PEFC-certified, as well as one-on-one meetings with mapped stakeholders.

The third aspect of the project is capacity building. An online discussion forum will complement a series of seminars and workshops aimed at several major sectors, such as furniture, pulp and paper, rubber, plywood and packaging.

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1

EU move to curb deforestation earns support

1 Oil palm cultivation in countries such as Malaysia have often come at the cost of deforestation. Photo: Wikimedia.

The European Union's proposals for new measures to combat tropical deforestation – in particular to control forest conversion to agriculture – have been backed by the timber sector, non-government organisations and other stakeholders. Some actually urge it to go further than the steps put forward.

An EU roadmap was put out for feedback at the start of 2019. The goal is to develop “an integrated EU approach” to combat deforestation, protect forests and promote sustainable supply chains.

“Deforestation is a major global problem, leading to biodiversity loss, climate change and poverty,” said the roadmap summary. “The causes are many and complex, though increased production of commodities, such as soy, beef, palm oil, coffee, and cocoa, drives almost 80% of all deforestation.”

Possible EU actions include building partnerships with producer countries to support uptake of sustainable agriculture and forestry and reduce pressure on forests. Another goal is to back creation of sustainable and transparent supply chains for sustainably produced commodities.

New partnerships with other major consumer countries are proposed, plus steps to better implement and communicate existing EU actions on deforestation.

Suggested measures

Mr John Hontelez for the Forest Stewardship Council (FSC) urged two actions from the EU. The first was to put pressure on EU importing companies to work with credible certification schemes that incorporate robust

environmental and social requirements and have effective verification tools.

“This pressure can start with public procurement requirements,” he said. The FSC also recommended fiscal incentives for adoption of certification, including via harvesting, concession or export fees, or VAT.

In response to the wider consultation from January through February, the World Wide Fund for Nature (WWF) said current EU anti-deforestation policies were inadequate and, among other tropical forest products, it cited wooden goods as a key risk commodity where action was needed to curb forest degradation impacts.

It also stressed that any EU action plan should be underpinned with legislation. That included in terms of ensuring transparency to identify investment linked to deforestation.

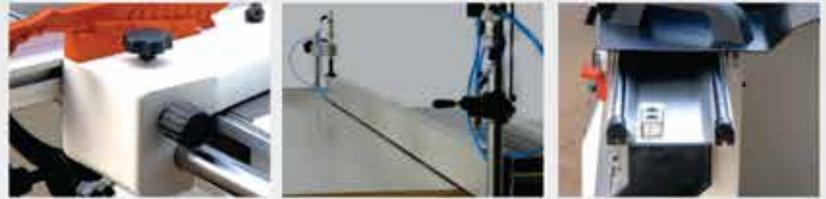
The Environmental Investigation Agency also welcomed the roadmap and consultation, but expressed concern at its statement that any initiative would be “non-legislative”. Fellow NGO Fern picked up the same theme.

The UK Timber Trade Federation backed the EU proposals and the fact that it concentrated on agricultural commodities, notably palm oil and soya the “real forest risk commodities”.

The European woodworking industries confederation, CEI-Bois, also backed the EU's focus on non-forest products. Following its consultation, the EU said it would issue a communication on its deforestation proposals in the second half of 2019.

Courtesy: European Sustainable Tropical Timber Coalition.

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Blum offers top-quality fixing solutions for furniture



With the rising trend minimalistic furniture, customers seek to implement open living spaces in home interiors. To meet this requirement, Häfele, in partnership with Blum, offers Expando T, a single fixing system, which enables wall cabinets, doors and pull-outs to have extremely thin fronts.

The fronts can be as thin as 8 mm and can be made up of any material, such as Dekton, chipboard, HPL or ceramics. This latest innovation enables customers to implement their own design ideas that, with bespoke solutions using fittings from the new range, stand out even more.

To fix these fittings, you need to drill holes of

10 mm in diameter and just 6 mm in depth as per requirement, insert the fittings in them and tighten the screws that are already pre-drilled on the fittings. As you tighten the screws, the steel teeth bite into the material of hard fronts and the nylon components ensure firm anchorage in the soft panels. Boss drilling is hence not required for hinges from the Expando T Range.

Further, Blumotion technology integrated within the hinge offers the advantage of a soft closing. The standard mounting plates can be used in existing fixing positions with the hinges and no changes need be made for the installation of cabinets.

EvoWood launches its Design Series



EvoWood, the wood engineering brand, recently unveiled its design series, with EvoLlae. The brand is made of 3.5-mm-thick solid wood sheets that carefully assimilate the various aspects of different wood species, such as color, texture and grain structure, into a myriad of new combinations.

Key features

- Availability in sizes up to 8 feet by 2 feet
- Roots, grains and colors that create unmatched, unique designs and patterns
- Eco-friendly material optimizing the usage of wood with creative designing
- Used to create distinctive table tops and highlighters in ceilings, floorings, walls, ▶



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doors and furniture

- Easy coverage of surfaces of any size to give uniform and symmetrical appearance.

Wood is one of the most versatile materials

with innumerable design possibilities and Delhi-based EvoWood aims to continuously come up with fresher designs to provide creative tools to the design community in the interiors industry.

The Series creates abstract and geometric designs and patterns using roots, grain orientation and color of various wood species in different combinations and caters to the residential, commercial and hospitality markets.

With an array of unique products and concepts, the company combines experience with expertise to produce innovatively designed solid wood products that blend aesthetics with practical utility.

The brand offers products ranging from economical to premium, making them affordable and viable for all kinds of applications.

Format-4 edge banders provide unbelievable finish



Time, which is the most important resource in a modern workshop, is the focus of Felder's Tempora machine concept. To achieve this, the models combine the core skills of speed, productivity, flexibility and ease of use to ensure that processing edges are done as efficiently as possible.

The finishing, when processing both coiled and strip material, results in standards that meet the demands of the complete process of edge banding.

Salient Features

- Zero-joint technology with patented zero-line aggregate.
- Smartouch control unit with m-motion or

x-motion PLUS control.

- Edge thicknesses up to 6 mm.
- Workpiece height 8 - 60 mm.
- Feed speed up to 18 m/min.
- Outstanding final results due to joint, corner rounding and finishing aggregate.
- Customised easy-clean for efficient glue pot cleaning, if required.

Modern and optimised edge processing aggregates and a flexible machine body guarantee absolute stability and reliability even at the highest of processing speeds. The machine can be equipped with a single or dual motor corner rounding unit and there are three free spaces for a choice of finishing units.

The patented zero-line aggregate from Format-4 enables the optical zero joint when processing co-extruded edge and laser edge material.

The aggregate is controlled by the work piece and can be activated and deactivated directly from the control unit. Zero-line offers the homogenised optic finish of the work piece with the panel and edge material, in particular with high gloss material. An edge material suited exactly to the material ensures a zero-joint line and as no time-consuming glue change of various colours is required, you profit from considerably reduced changeover times.

The user-friendly control options "m-motion" and "x-motion plus" ensure absolute

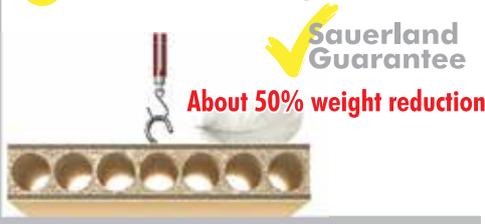
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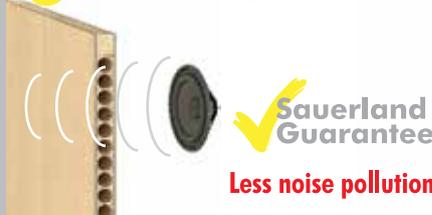
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repetition accuracy and individually configurable operating programs enable quick manual change of the aggregates as well as control via the smart-touch control panel.

Unique control

The smart-touch control unit with network connection reduces the manual settings and enables a quick, easy and intuitive selection and control of the aggregate as well as the complete monitoring of all machine functions from the screen. Features include:

- Easy, self-explanatory representation of the units and their functions.
- Selection of the aggregate and exact fine adjustment of the motor positionable aggregates (accuracy of up to 1/100 mm) all from the main control panel.
- Glue temperature setting and automatic temperature reduction of the glue whilst in standby mode.



- Unlimited data memory for user-defined edge banding programs.
- Maintenance plan, odometer for total meters of material used.
- Available in 10,4" and 16" screen size.

FeMaTec makes PUR glue dispensing easy



The FeMaTec PUR bag melter (L) and the innovative slot nozzle (R) on a Homag edge bander.

Most quality-conscious furniture manufacturers understand the benefit of using PUR adhesive for edge banding; but the complexity and hassles involved in its use becomes a big deterrent for them.

Shreepal Group took up the challenge of providing an affordable solution to this problem by introducing a completely sealed system from FeMaTech of Germany. The system consists of three parts: a melter, a

specially designed hose and a slot nozzle, which is at the heart of the entire system.

The slot nozzle is a device which replaces the conventional glue pot and glue roller in the edge banding machine. As the name suggests, it is a nozzle with a very narrow slot.

PUR glue is dispensed from the slot and applied on the panel edge by wiping action. The amount of glue being applied is precisely controlled by the system, ensuring an almost invisible glue line and economy of operation.

The slot nozzle is activated through a calibrated sensor, which ensures that the nozzle opens only when the glue needs to be dispensed. It remains closed at all other times. This prevents the moisture in the air from reacting with the glue, thus eliminating the possibility of premature polymerisation and possible choking of the system.

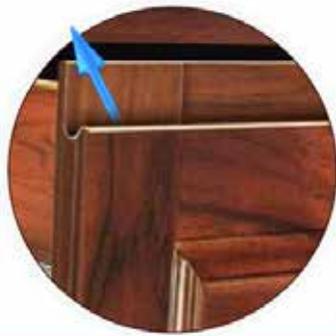
The nozzle can be seamlessly adjusted up to 60-mm panel thickness. The beauty of the system is that it can be retrofitted on any through-feed edge banding machine without requiring any major modification.

Shreepal has a trained team of engineers to install and service the equipment. The operation is through a simple touch-screen control which is easy to understand and highly user-friendly.

All in all, the FeMaTech slot nozzle system is a perfect and simple solution to the complexity of using PUR adhesive for edge banding.



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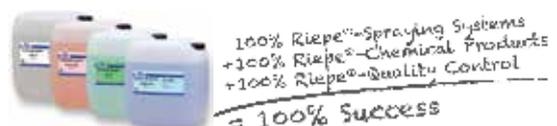


Spray System from Germany to Enhance Edge Finish Quality

- Electronically controlled Spray Units, directly installed on EDGE BANDING MACHINE
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- Polishes Panel Edges to make it Smooth & Glossy.
- Cost effective way of getting perfect edges.



Release agent, antistatic coolant and cleaning agent



No smoke signals from Hepo



Hepo in collaboration with the German brand, Blaupunkt has launched its latest collection of premium kitchen appliances.

Aesthetic, built-in kitchen mechanisms, engineered to save space, have bred a substantial number of concepts in the recent past. This interest has led to revolutionary changes in the contemporary kitchen, with the traditional space consuming appliances being replaced by new, sleek & technically suave inbuilt appliances.

The range includes cooker hoods, inductions hobs, gas hobs, built-in ovens, built-in microwave ovens, built-in dishwashers & built-in refrigerators suited for Indian style cooking and conditions.

Built-in hoods by Hepo is an aesthetically appealing product that, besides adding charm to the destined area, enhances the health quotient by sucking away undesired smoke and fumes that are emitted from the kitchen applications.

Hepo offers 4-hood based air treatments catering to the different positions in the kitchen interiors. They are wall/ceiling fan/

Island hood & flat hood. Eighteen different designs have been provided to meet individual requirements.

Island hoods placed over Island kitchens are a complete delight. Ceiling hoods mounted on the ceiling of the kitchen provides for the complete extraction of smoke and fumes from the room. Wall hoods, as the name suggests, are typically mounted on to the walls where they fit discreetly in the units above the hob.

Mesh and baffle filters installed in the hoods prevent the spread of grease and smoke. The long-lasting, low-energy consuming Eco Engine runs with minimum sound and removes combustion products, fumes, smoke, odours, heat and steam from the air through a process of filtration and expulsion.

The recirculation and exhaust air mode are the two modes of extraction and the hoods come prefixed with features like electronic control for precision adjustment fan power. A range of hoods in various sizes ranging from 60 cm to 118 cm in stainless steel, angled glass design, and stainless steel and black glass finishes are available.

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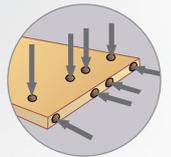
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The ultimate in material handling



1

Due to increased demands, labour cost and production lead times the modern industries now slowly adopting automation and other

advanced material handling technologies that helps improve the overall productivity of the factory.

2

1 *Loading and unloading pallets at the edge banding station within the factory.*

2 *A glue spreader for the veneer-making and plywood industries.*



Un-palletised load, for instance, not only make it difficult to move, it consumes more time involving additional labour. Improper work flow and unstandardized activities results in increased production lead time, which affects the utilization of the machines/ resources.

To help solve such issues related to material handling there are wide variety of material handling equipment available for each applications. For proper handling of any material, every load should be palletised thus making it easy to move or handle.

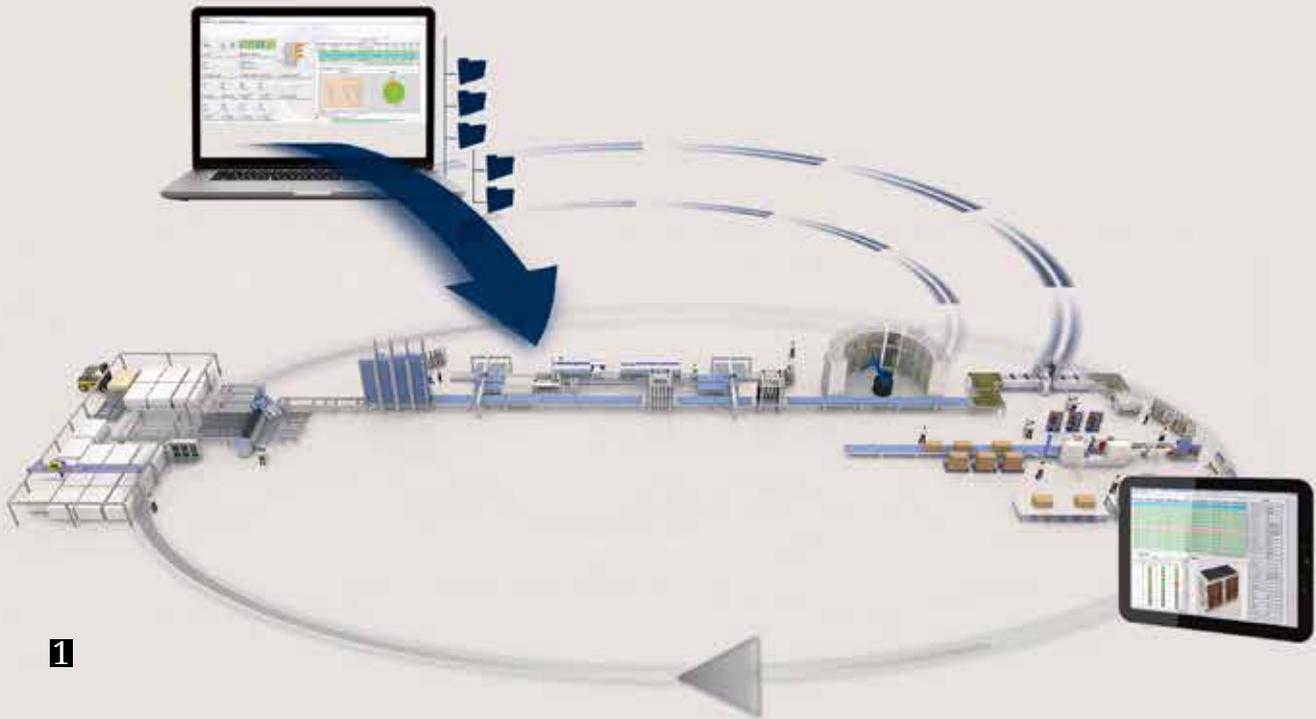
The following equipment is used for material handling in any industry:

- Elevating dock and dock leveller for loading/unloading from a vehicle
- Scissor lifts/ Slim lifts for machine feeding (beam saw machine, sanding machine, CNC machine, glue spreader machine feeding & receiving)
- Pallet trucks to move load/ pallets within the factory
- Goods lift to move goods between floors
- Reach up for overhead maintenance.

The Mysuru-based Ferro Foundries is one of India's leading material handling equipment & plywood machinery manufacturer. It provides material handling solutions under the Ferro Tiger brand that helps increases productivity, reduce labour dependency and improves safety for both men and material.

Among Ferro Tiger's prominent customers are Century Ply, Merino Industries, Greenply, Featherlite, Herman Miller, Everest Ply, Uniply, Austin Ply, Greenlam, Rock Worth, Crystal Furniture, Zuari Furniture, Sharon Ply, Biesse, MAS Furniture, Hunsply and Pyramid Timber Associates.

ControllerMES monitors all manufacturing



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1 *Optimum production processes are not a matter of company size.*

2 *ControllerMES as a higher-level system for controlling processes and material flows.*

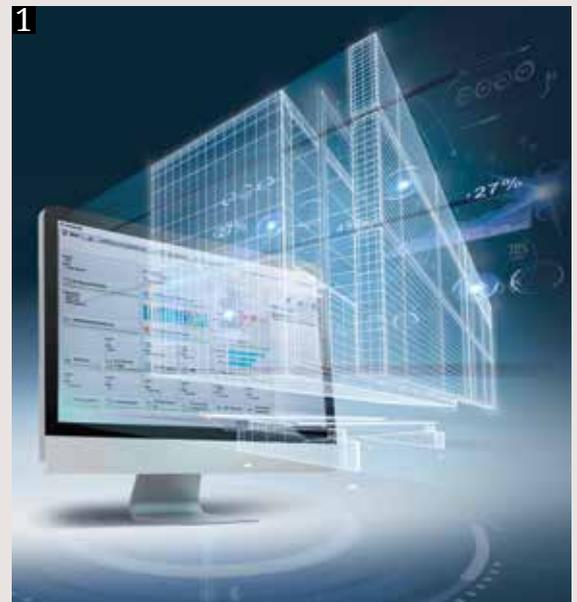
The digitalization of the wood and furniture industry requires control of production planning and organization to ensure efficient production processes, optimal data quality, and absolute transparency.

This new business area is what Homag is focusing of through its "Homag Consulting and Software" arm that develops tailor-made software solutions. ControllerMES, the manufacturing execution system from the division enables an integrated information flow within production and at the same time offers the option of digitalized production planning and organization.

The data is first created in an upstream design software such as woodCAD|CAM and transferred to ControllerMES. This ensures that there are no data processing errors. Labels with barcodes enable the unique identification of each component- regardless of its current stage of production.

The machine data required is supplied to the relevant machine through the reading of barcodes. Waste is reduced thanks to the flexible grouping of jobs in batch formation and the seamless communication with the Cut Rite cutting optimization software.

The progress of the jobs can be viewed in ControllerMES throughout the entire production process. This means that you can see at a glance whether individual furniture components are ready for assembly or can be delivered to the construction site. And if a part has to be reworked or reproduced quickly, the predetermined logic in ControllerMES helps with this process.



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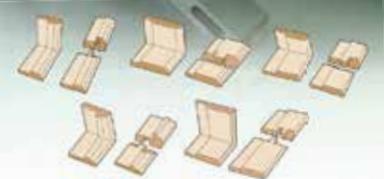
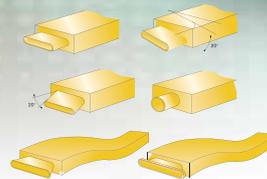
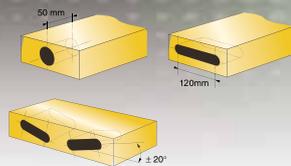


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A new 'switch' in home design



Keeping the aesthetics of house interiors in mind the Mumbai-based NCC Telecom has come up with the Infinity switch, finished in various materials that blend seamlessly with the look of the home.

The switches are finished in stone, wood, canvas and concrete, and the entire surface is touch-sensitive. They look a part of a wall or a panel and help create a clean, sleek interior.

The Infinity collection of switches rewrites the rules of design and is crafted using high-end materials. These switches are innovatively designed to enhance user experience and design and as it is touch sensitive, it creates a seamless user experience.

Infinity series range of switches includes Touch, Infinity Earth, that have feature-sets like remote & smart device control, haptic

touch feedback, retrofit, proximity sensing. They are also compatible with Amazon Alexa and Homekit.

The switches are manufactured using indigenous technology and there is no dependency on spares/services/ imports on any MNC.

Some of the other features include browser-based graphical control software, operating system independent/ web-enabled, hybrid lighting module hardware, Integrated security system & SIP video door phone, no limit on the number of user interface/ user accounts, multiple control interfaces – from conventional switches to smartphone/ tablet, and an online support ticket tracking & FAQ knowledge base. (email: info@ncc.co.in)



WOODNEWS

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Top-line edge banding from Jai



Jai Industries offer an unparalleled array of products that include woodworking and panel processing machinery and electric motors. It is well known for its engineering quality, technology and innovation.

Its range of machines are products of R&D backed, high-end precision engineering and have the best possible features and are made of the topmost quality material and component. All the products are backed by dedicated service and guidance.

Jai currently manufactures 30,000 machines a year in its seven plants that have a total floor area of 4, 00,000 square feet. Its machines are specifically produced to suit Indian working conditions.

OptiEdge 6.5 (Edge Bander)

The OptiEdge model combines the key characteristics of speed, productivity, flexibility and user comfort. It is a complete package and is the ideal machine to ensure that processing edges are handled quickly,

easily and as efficiently as possible.

Edge processing aggregates and an optimized machine chassis guarantee absolute stability even when running at maximum speed. The final finishing results when processing coiled material gives incredibly high standards that fulfil the ever increasing demands of edge-banding processing.

The machine can be perfectly configured for company specific requirements.

Salient Features

- High-performance machine with High feeding speed of up to 25 m/min that gives more production
- Teflon-coated, hot-melt glue pot to allow easy and quick glue replacement
- Motorized up-down movement of pressure beam for easy thickness setting
- Robust feed chain and conveyor system with heavy-duty gearbox for effective pressure on panels





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An optimal unit for panel edge pre-milling with two heavy-duty high-frequency motors supplied with a set of diamond cutters as standard supply with the machine.
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cutter for PVC / ABS gives perfect round cornering on edges of straight chamfered and post-formed panels.

- Cleaning agent
In order to prevent glue to adhere on panel, cleaning liquid is sprayed to the lower & upper surface of the panel.
- Auto lubrication
Automatic Lubrication system circulates lubrication to the required parts of the machine, ensures efficient operation & increase the life of parts.
- Branded parts
All electronic & pneumatic parts are from well-known international brands for trouble-free operation. Air pressure safety tanks are provided to ensure non-dropping of air during the process. Two tanks are provided one for general air supply and other for the specific round cornering unit.

Specifications	Unit	OptiEdge 6.5 (without pre-milling)	OptiEdge 6.5P (with pre-milling)
Workpiece thickness range	mm	10-60	10-60
Minimum workpiece width	mm	60	60
Minimum workpiece length	mm	100	100
Edge banding thickness for PVC & ABS in coil	mm	0.4-3.0	0.4-3.0
Workpiece feeding speed	m/min	15-20-25	15-20-15
Glue pot capacity	kg	2	2
Total power	HP	12.66	18.66

Rehau floating shelves provide ample storage



Rehau floating shelves are an elegant way to expand storage for everything from dishes and small appliances to decorative objects while complementing the clean, no-hardware design of modern European-style cabinets.

These modern, streamlined shelves are capable of replacing the storage capacity of upper cabinets while lending airiness and uncluttered style to the kitchen, bath and accent-wall design.

The high-quality shelving with a patent-pending bracket design has a storage capacity of up to 15 pounds per linear foot, enabling



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displayed storage of far heavier items than previously possible without visible hardware.

Rugged in function, these floating shelves have a crisp, clean finish. Unlike the self-edge finish of traditional shelving, the company exclusively offers shelves finished with perfectly-matched edgebanding that enhancing durability and visual appeal.

The floating shelves are an extension of our modern, customised, cabinet-door line offered in more than 100 surfaces. The shelving is offered in the Rauvisio brilliant, Fenix NTM and Rauvisio terra lines and are manufactured with a sturdy, 3/4-in (19 mm) MDF core.

The 2 3/8-in (60 mm) thick shelves are offered in depths of 10 and 12 inches (254 and 305 mm) and custom, made-to-order lengths up to 8 feet (2.44 m).

Thickness: 2-3/8 in (60 mm), Depth: 10 or 12 in (254 or 304.8 mm), Min Length: 22 in (558.8 mm), Max Length: 96 in (2438.4 mm).

The shelves install over drywall with typical do-it-yourself tools including a level, drill and stud finder. The innovative mounting bracket inserts through an open cavity at the back of the shelf and allows for lateral adjustment to the desired location for ease of installation and removal.



RMD boards from Ventura International

Wall panelling is one of the trendiest techniques to make your walls look more elegant, inviting, stylish and sophisticated. Adding decorative wall surfaces is a simple and promising way of home renovation or home beautification.

Plastering of walls is a hectic and time-consuming job. It is cost intensive too. There is a huge demand for decorative wall surfaces

which can easily conceal uneven tops and render seamless surface finish on the walls.

The answer is now here. RMD Boards, manufactured in Dubai and introduced to India by Ventura International, bring a magical change to the interiors. It is an effortless way to safeguard walls, apart from enhancing the interior look of the rooms.

The range can be used to improve interior architecture of the living room, study room, kitchen, bathroom or porch. The modified area looks prominent when a wall is highlighted with the help of these wall panels or coverings. The panels are accessible in a wide range of colours and textures.

The wall panels can be easily and quickly installed without the need for base preparation. This new collection boasts the natural look of marble, granite, wood and leather.

The advantage of this product is that it is waterproof, termite proof, are available in full sizes of 8'x4' and very light to work with. ▶



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These panels are also eco-friendly, stain & scratch resistant, sound and thermal proof, recyclable and easy to maintain. As a next-generation material engineered for interior decoration, RMD wall panels are an easy substitute of wood, MDF (medium-density fibreboard), plywood, paint, wallpaper, granite and marble, with many more advantages.

With such features, these panels are the perfect piece for redefining the interior décor of homes, offices, hotels, cafes, leisure clubs and commercial complexes.

More than 60 designs in wooden, metallic, leather, floral, abstract and fashion series are on offer. The sheet size is 8'x4' and thickness is 4.8 mm and 5.3 mm.

Two new affordable sawmills from Wood-Mizer



The LT15 Power and LT15 Start are two saw mills from Wood-Mizer that are now available to Asian saw millers who want to boost yields, lower costs, and have dependable and durable sawmill machinery.

The LT15 Power is an extra rigidly-constructed sawmill with a new heavy-duty bed system. This sawmill is designed to be as basic, rigid and simple as possible. This sawmill is ideal for companies needing to increase their sawmilling capacity with minimal labour, lower maintenance costs, and ensure durability for the life of the machine.

It can cut logs up to 70 cm in diameter, has an 11-kW motor, electric up/down and push feed operation. Options include electronic setworks, power feed, and a debarker. In order to cut longer logs, bed extensions can be added to extend the sawmill bed to any required cutting length.

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The LT15 Start is the ideal affordable sawmill for straightforward timber processing with sturdy construction and simple features. It cuts logs up to 70 cm in diameter and 5.4 m long with the standard bed. To cut longer logs, bed extensions can be added to extend the sawmill bed to any required cutting length.

The sawmill features push feed and a manual

crank for repositioning the blade for the next cut. A 7.5-kW motor is standard, and 14-HP petrol engine is also available.

Due to the similarities between the two products, the LT15 Start will take the place of the LT10 as the ideal way to start sawmilling affordably and with proven quality. (www.woodmizerasia.com)

Hybrid engineered flooring from Xylos



Xylos, a brand by the Malaysian conglomerate, Samling Global, brings Hybrid flooring an exclusive and elegant range of wood flooring and wood cladding products to enhance the décor.

Hybrid flooring by Xylos is comprised of many unique layers including a UV coating and “wear layer” and is constructed with the perfect blend of limestone and polypropylene. The most exciting part is that it is highly water resistant making this the perfect solution to getting that beautiful flooring without the fear of spillage.

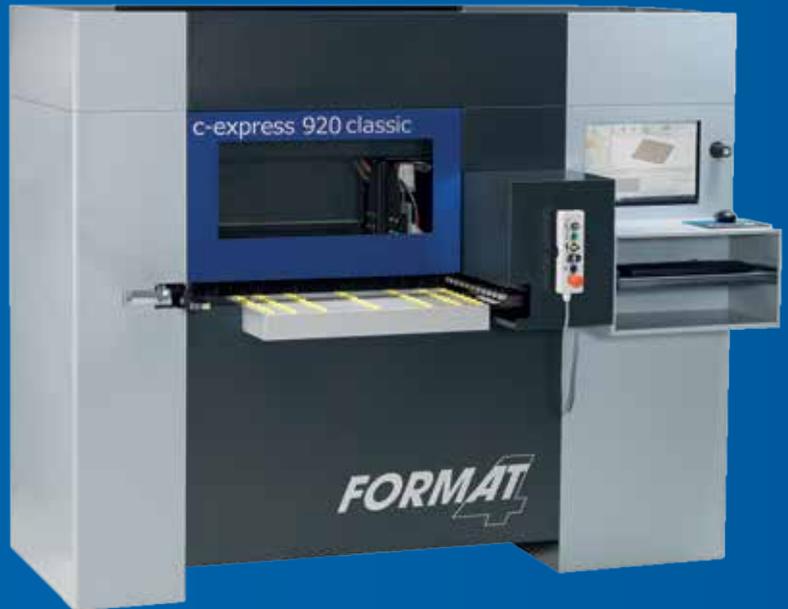
The new innovation is also termite resistant, fire resistant due to its core not being wood. It is available in seven different shades including Oak and Hickory, making it a combination of style and functionality a definite winner and is available in size: 1200 mm x 165 mm x 7 mm.

The portfolio of products from Xylos comprises engineered wood flooring, solid wood flooring, laminate flooring, external wooden decking and Bamboo flooring as well as wood-based wall-coverings and is the only brand with integrated products and solutions from forest to finish. (www.xylosindia.com)

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New window production system from Weinig



The CNC system Conturex has been setting standards in window manufacturing. Now Weinig has extended the model range with a compact center.

With the fully automatic system, it was possible to produce windows of first-class quality. The Conturex concept includes items such as single part production, complete processing in one clamping process, set-up-free processing and tool splitting with all the associated advantages.

The heart of the system solution to this day is the patented clamping system. The tool is guided past the firmly clamped work piece and not vice versa.

Since the first machine, Weinig has continuously worked to build an ever broader portfolio. The new Conturex Artis is another milestone that is designed to be a flexible, high-performance machine for smaller companies as an answer to the consolidation process in the window market.

With a capacity from seven window units per shift, the Artis is positioned below the previous entry-level machine, Conturex Compact.

Technically, it has all the features that make up the current success of the CNC series and the machine offers the user limitless options in terms of window systems.

In addition, it has an open, modular concept and a system capability that corresponds to the latest state of the digital world.

RePos easy, the patent-pending re-clamping process enables variable part clamping and automatic movement of the work pieces in the machine. The work pieces remain clamped throughout the manufacturing process, thus achieving maximum precision and quality.

For complex clamping situations, PowerGrip RePos easy also enables clamping in the fold. The qualities of the new development prove to be particularly advantageous with slim profiles and new architectural window systems.

The Conturex Artis is equipped with the main spindle with 3-axes but is also available with 4-axe technology. An indirect drive protects the 30-kW motor in critical situations. The standard machine is designed for lengths from 175 to 3,500 mm and can process work pieces up to 4,500 mm.

The new machine includes the Weinig CAM, a fully-fledged and easily programmable 3D CAD/CAM system for individual design. Also supplied is Weinig Sim, which allows the visualization of production data. The simulation of the process steps planned ensures effective collision control, for example.

Standard interfaces for any common industry software, e.g. window/door production, WOP or external CAD/CAM software, complete the Artis IT package. As a result, the Conturex Artis can be easily integrated into the complete Weinig solid WF, which opens the system to a wide range of work environments.



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Anchor becomes Panasonic, launches kitchens



(L-R) Mr. Tetsuyasu Kawamoto, Joint Managing Director of Panasonic Life Solutions India Pvt. Ltd., with Mr. Vivek Sharma, managing Director.

Anchor Electricals Pvt. Ltd., a wholly owned subsidiary of Panasonic, recently announced the change in its legal entity to 'Panasonic Life Solutions India Pvt. Ltd.' with effect from 01 April, 2019. The brand has also changed its corporate identity from 'Anchor by Panasonic' to 'Panasonic'.

Anchor Electricals has been a leader in the consumer electrical segment for over five

decades. The company has been selling a wide range of electrical products through its strong dealer and distributor network spread across the country.

Anchor has been the industry leader in wiring devices and also has a significant presence in switchgears, wires, cables and tapes, conduit pipes, lighting, solar, power tools and indoor air quality.

With this step, the brand Panasonic Life Solution will also be foraying into a new category, introducing an all-new, first-of-its-kind modular kitchen, which is on the threshold of its launch in India.

Mr. Tetsuyasu Kawamoto, Joint Managing Director of Panasonic Life Solutions India said, "We aim to offer outstanding products and services across all categories to our consumers. With the new name, our goal will be to transform the vision of 'Making a better, comfortable life with human-oriented solutions' to reality."

Weinig opens full-service centre in Russia



Weinig has founded a branch in Moscow with a comprehensive range of services. The new organisation replaces the service company that has existed since 2013. Sales tasks are now also being performed, for which the parent plant in Germany had been largely responsible in the past.

"This is the starting signal for an even stronger partnership with our Russian customers," said Mr Maxim Prituzhalov, the new Managing Director of Weinig Russia. "Customer proximity, stocking of spare parts and warehousing of machines are central pillars of the future orientation."

Strategically, Weinig Russia would like to re-strengthen the sale of entry-level planing machines, while project business had clearly dominated in the past. For panel processing, the second major business unit of the Weinig Group, the main focus is on direct sales in the important regions of the country.

According to Maxim, "We rely on Weinig's overall competence across the entire value chain, but also on our leading position in wood optimisation and the mega-trend of digitisation."

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Helical Planer Cutter Heads with Changeable Knives
Knife: 15 x 15 x 2.5 x 30°
15 x 15 x 2.5 x 37°



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60 x 12 x 1.5 x 35°



Changeable Knives / T.C.T



Spindle / Double Surface Planers Helical Planer Cutter Heads with Changeable Knives
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30 x 12 x 2.5 x 35°
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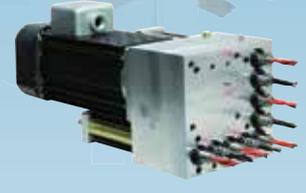
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British Columbia approves 12-storey wood buildings



The construction of 12-storey mass timber buildings will be approved in the National Building Code of British Columbia (B.C.) in 2020, according to its Premier, Mr John Horgan.

“We believe that the work has been done,” Horgan explained. “We’ve got a practical example of more than 12 storeys at Brock Common – 18 storeys – so we’re prepared, we’re confident that the work has been done on the safety, the work has been done on the fire aspects.”

More housing can be built quickly because large sections of tall wood buildings can be manufactured in a plant, and then assembled

on site. This will speed up construction time, while also reducing green-house gas emissions.

Ultimately, this policy change will make B.C.’s forest sector stronger and healthier by adding more value to wood products and encouraging more local wood processing.

Horgan said, “We have had two of the worst fire seasons in our history in 2017 and 2018 – two million hectares of merchantable timber up in a puff of smoke. We have less wood today than we did 20 years ago. So, if we’re going to continue to be a province that depends on forestry – which we will be – we need to make sure that we’re adding more value, not more volume to our production.”

According to Mr Hardy Wentzel, CEO of mass timber manufacturer Structurlam, the company is very fortunate to be igniting a mass timber revolution across Canada and across the US.

“In addition to the commitment to B.C.’s economy, our ability to fuel this economy and create jobs through innovation and mass timber, I think there’s a lot more ahead than what’s already in the rear-view mirror,” he concluded.

Akzo Nobel has fire protection for wooden facades



The company’s marketing segment for wood coatings stated recently that due to its application properties, as little as 250 gm per square metre is needed to create an even and attractive appearance. This would mean around 29% less primer requirement than is the case with comparable products.

Approved in Europe in line with the required standards for reaction to fire, ignitability and durability, the system is classified as ‘B’, the highest fire-retardant rating that can be expected for an organic material such as wood.

Akzo Nobel has presented a new fire protection system for wooden facades with an ultra-effective fire-retardant primer being the key component.

The coating, which dries in less than 2 hours, is suitable for airless and air-assisted high-pressure spraying in a production line environment, with no additional investment in special spraying equipment required.

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Jai's (Semi-Auto) Double Head Boring Machine



Adequate maintenance is a crucial factor for the long life of the machine (J-2102.in) and to provide conditions for its optimal working. All maintenance operations must be done with the machine turned off and personnel wearing protective gloves.

The machine and working area must be kept clean from working scrap and anything that

could hamper the working cycle or access to the machine itself.

The machine must be cleaned to ensure that material not needed does not gather on it. This could prevent safe operations and can cause danger to the operator during the normal working cycle.

Sliding guides, sliding bars and movement screws must be kept clean from working residues that can prevent correct machine movement and could hinder efficiency. Do not use detergents or lubricants.

Make sure the machine is lubricated regularly. Grease the drilling head through the grease nipple.

Check the electric system safety by checking on the condition of the electric cables and make sure there are no signs of wear, scrapes, etc.

Check the clamping of the various mechanical components. Check the air pressure and ensure that the air supply is 6 kg/cm². Check the lubricant oil level in the air filter and top up if necessary.

Problems	Causes	Remedies
Drills do not work	The motor is not working The motor has burnt	Push the motor start push button. Release the emergency push button Check the fuse Check the air pressure Replace the motor
The motor works but the drills do not	Possible failure of gears, keys or drive joints	Replace or call technical service staff
The holes are inaccurate	Improper drill locking. Drill wear Work piece improperly blocked	Check locking Replace Check clamp units, their seals and working air pressure
Jerking of the drill head	Working residue on the sliding rod Sliding rods not parallel	Clean the sliding rod properly Check the mounting of sliding rod B(Fig2)
The hole distance or board thickness hole size not proper	Position indicator reading does not match due to improper setting of the screw/nut thread damage	Adjust the position indicator, as per size (as shown in fig.2) Replace the screw/nut
Drilled pieces are not parallel to the reference bar	Incorrect parallelism of the drills in relation to the reference stop	Check the heads in relation to the stop and the parallelism of the line of head 1(C) with head 2(D) in vertical position as shown in Fig.3.
Drilling head when raised does not reposition	Air pressure insufficient. Air cylinder limit-switch contacts damaged. Limit switch not in position	Adjust the required air pressure Replace with new contact Make the proper adjustment

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EVENTS CALENDAR

INTERZUM

21-24 May 2019

Venue: Koelnmesse GmbH, Cologne, Germany

Interzum Cologne is the world's leading biennial trade fair for furniture production and interior design. Decision makers, opinion leaders and disseminators from all over the world keep up with the innovations in the industry. The 4-day event showcases products like home textiles to furniture to lighting designs to contemporary heating solutions etc. in the electronics and electrical goods, home furnishings and home textiles, architecture and designing, furniture industries.

www.interzum.com

EVENTS CALENDAR

LIGNA

27-31 May 2019

Venue: Hannover Exhibition Grounds, Hannover, Germany

The event, held biennially, provides a comprehensive overview of the materials, design solutions and technologies currently available for the woodworking and furniture industries. It covers a broad spectrum of exhibition topics, ranging from wood as a renewable material to wood working and processing technology to components for the furniture and interior finishing sectors. International and national exhibitors present their products and services that include forest technology, sawmill technology, woodwork and veneer production, solid wood processing as well as accessory and services. There is a strong focus on machine demonstrations and the innovative power of digitization and automation.

www.ligna.de

GABON WOOD SHOW

24 - 26 June 2019

Venue: Jardin Botanique, Libreville, Gabon

The Gabon Wood, Woodworking & Forestry show offers you the chance to meet wood, woodworking and forestry professionals, develop ideas for increasing the range and quality of your business, and learn new techniques and sources of supply. It is a quest to be the best platform for creative ideas and new technologies, and showcase innovative resources that would lead to lucrative transactions. The exhibition would display the latest products and innovations in the wood and forestry industry in the region.

www.gabonwoodshow.com

FITECMA

02 - 06 July 2019

Venue: Centro Costa Salguero, Buenos Aires, Argentina

The 5-day fair takes place every two years in Buenos Aires and is aimed at professionals from the industry. International exhibitors are represented at the show to present here the latest machinery, materials and processing techniques.

www.fimma.com.br

AWFS VEGAS

17 - 20 July 2019

Venue: Las Vegas Convention Centre, Las Vegas, Nevada, USA

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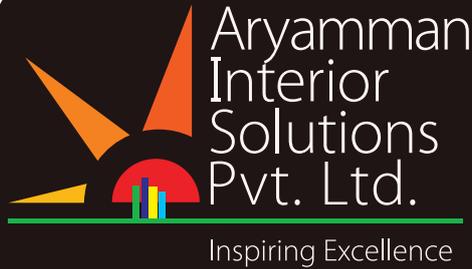
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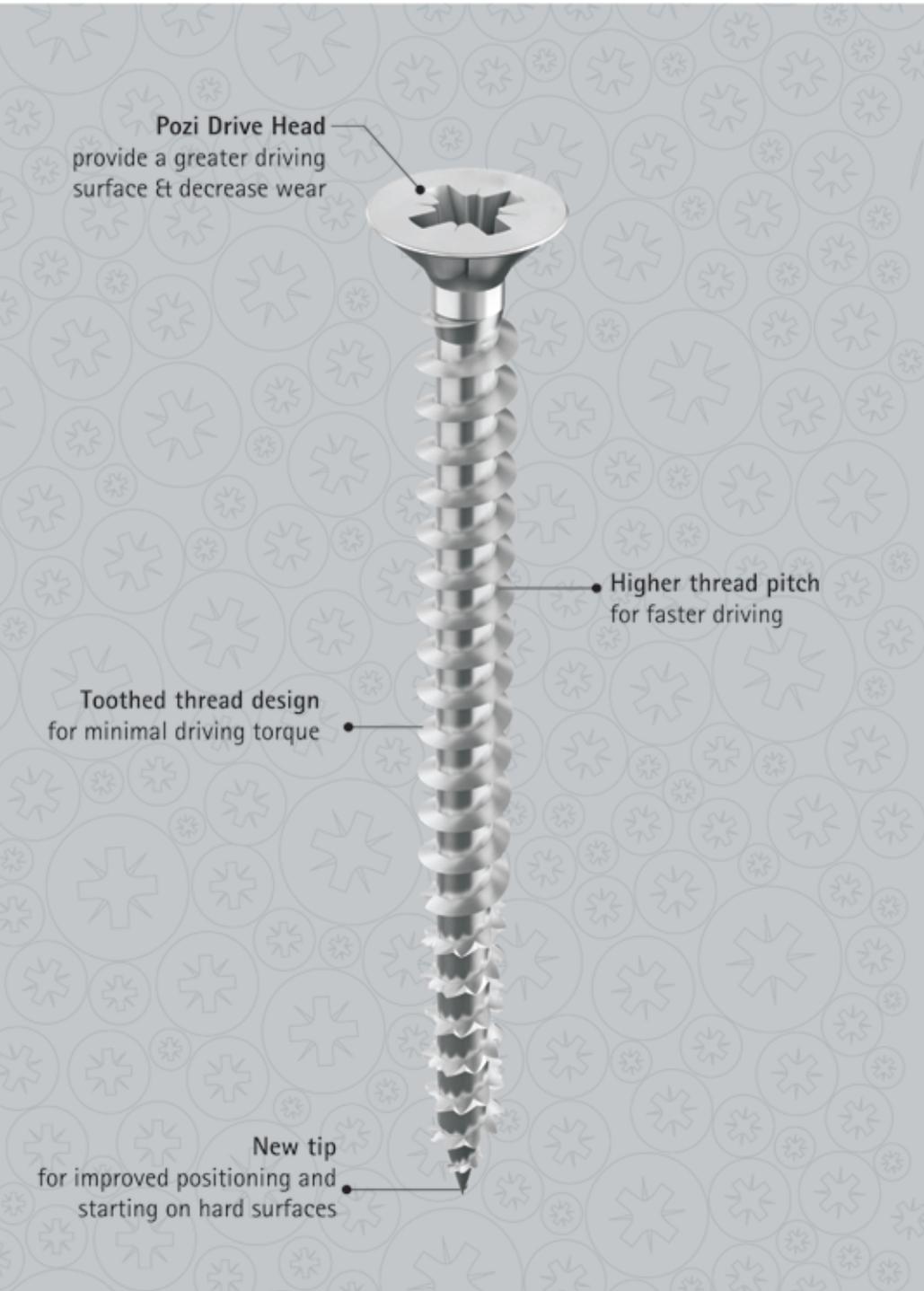
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