

WOODNEWS

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Ajay Aggarwal

Director, Action Tesa,
on ply and panel
industry in India

INSIDE

Bamboo Furniture:
From Bangalore to
Beijing

DelhiWood 2015:
Catalyst for industry
growth



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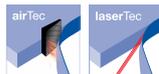
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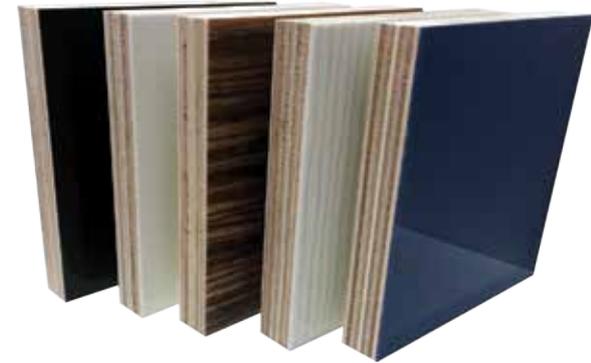
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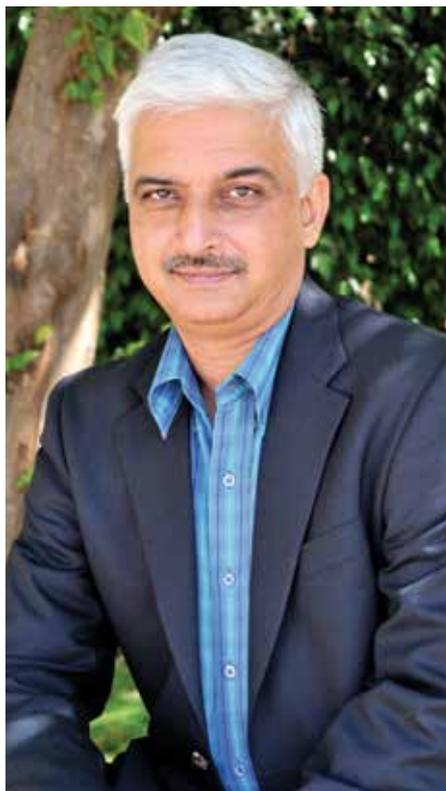
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EDITORIAL



Hello Readers!

The 4th edition of DelhiWood (4-7 February, 2015, in Greater Noida) again outdid its predecessors: there was an expansion of exhibition space to accommodate demand, there were additions to its exhibitor profiles, it overtook previous visitor counts over the four-day international trade show, and generated extra excitement and interest in the form of furniture retailers participating to identify prospective manufacturers as serious business partners. With this, DelhiWood has put its stamp as the only trade show in the country to actually involve the entire industry ecosystem in its evolution from the traditional hand-made, bespoke manufacturing to a mechanised, efficient and competitive sector.

There are challenges ahead before furniture manufacturers can meet the exponentially increasing domestic demands; there will be tougher times competing with cheaper imports; there is a necessity for government assistance by way of setting standards and formulating norms (and implementing them); it will be a few years before investments and technology can erect a viable infrastructure but – as many of our speakers at the *WoodNews* panel discussion on ‘Make in India’ stated – the time has come! One way of synchronising efforts, minimising wasteful competition, maximising technical efficiency and focussing investments is in the form of furniture manufacturing “clusters”, talk of which has been in the air for more than 5 years now!

WoodNews awaits with great interest the unfolding of the proposed ‘Zero Effect, Zero Defect’ model of the Union Government to handhold lakhs of micro, small and medium enterprises over the next five years, to deliver top quality products using clean technology. The Department of Industrial Policy and Promotion is expected to finalise the nitty-gritty of the scheme soon. It will involve manual skilling, technology upgrade and automation, among others. Star ratings have also been proposed based on levels of competence, technology and quality on various parameters. Note: a structured and organised furniture manufacturing industry would have been better prepared to capitalise on such a golden opportunity!

This issue of the magazine also talks of selling chopsticks to the Chinese – figuratively, of course. China is noted as the world’s powerhouse as far as bamboo processing technology is concerned. But in the heart of Beijing, connoisseurs from around the world are lapping up customised, hand-made Indian bamboo furniture, and asking for more! *WoodNews* spoke to entrepreneur Sandeep Sangaru and came back with not only the euphoria of his success, but also with the lesson that in the feat of Sangaru Design Objects Pvt. Ltd. (based out of Yelahanka, near Bangalore) design plays a pivotal role. I hope this story inspires and motivates more among us to prove to the world: *Hum kisi se kum nahi!*

Dhananjay Sardeshpande



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‘Investing in technology is our best bet’

India has a burgeoning market in wood- and panel-based furniture, aided by a flood of direct-to-home online retailing opportunities. Alongside, we have a clutch of imported furniture retailers making a mark for themselves. *WoodNews* attempts to put perspective into sometimes vastly exaggerated scenarios on where the country’s plywood and panels industry is headed, as well as the challenges it faces.

Here **Mr. Ajay Aggarwal**, Managing Director of Action Tesa, a company with many firsts in India to its name, explains the situation. With the panache of an industry leader, he also offers some pointers to the way ahead.



The domestic market for wood-based (and panel) furniture is expanding at more than 30% annually. Does India have the infrastructure to meet such demands?

If we look at the present scenario, it doesn't take a genius to infer that the present infrastructure is definitely falling short of the potential growth expectations of the domestic market. Having said that, the way this new government is giving shape to various growth schemes, one can make out something is in store. I believe that infrastructure is bound to increase, not only in the woodworking industry but across all important sectors.

What will be required to further build such an infrastructure? What scale of financial investments and time frame are required?

I think promise and stability are the two balancing weights to walk this tightrope in the years to come. When I say promises, I say they must be kept at the highest level: from implementing 5-year plans, prioritizing the key objectives, to allocating financial investments within a given time frame.

India is looking at a stable government and major private equity players and global investors are eyeing India as greener pastures. The leverage offered to the real estate in the recent budget is a clear benefit for all housing and construction projects. Talking of stability, with the grass-root policies sorted and a unified leadership addressing people across strata, the road ahead looks good.

In India, what constitutes major raw materials for particle board and panel products across categories?

Agro-wood is the major source of raw material, comprising poplar and eucalyptus. Apart from boards and panels, what can be perceived as promising bylines of the industry are melamine and decorative paper. With the industry growing at a remarkable rate, India is self-sustained to feed enough, and more, raw material to churn out global products.



The government can send a message to the nation by using low emission products in all its projects.

How comfortable are Indian manufacturers about raw material supply?

It is a simple question, but not with a simple answer to it. There are times when there is a shortage of agro-wood, inflating the prices of sourcing wood to a point of bearing losses with the financials. While this catapults the demand, the farmers grow more poplar and eucalyptus, sorting the demands for a couple of years. So, like any other industry, demand and supply form the blades of the scissors.

How successful has agro-forestry been in India to meet raw material supply? What (if any) are its shortcomings?

Agro-forestry stands on two pillars: raw material sourced from farmers and deforestation to get the desired raw material. Internationally there are forests from where trees can be chopped for the raw material and more plantation is done to fill in the green belt. But such a practice has not found acceptance in India.

That leaves the agro-forestry industry relying on farmers and their will to grow the desired raw material. We do also get access to trees in forests but

only after they fall. The government auctions wood, but the volumes do not amount to substantial quantities. I think the government should dedicate a few forests to this chopping and replanting cycle, to ease the shortage of raw material.

What alternatives are being tapped/developed for raw material supply in the years to come?

Here I would like to speak on the behalf of our group only. It is a practice at Action Tesa to distribute saplings of poplar and eucalyptus to farmers free of cost. We encourage them to grow the raw material around our plant in Sitargunj. I think this is a simple idea that everyone in the industry should adopt. This will not only resolve the shortage factor and save on transportation costs, but also give the farmers a sense of security and assured income.

How successful are agro-residues, (sugarcane) bagasse and bamboo as raw material for panel production?

Use of bagasse and bamboo in panel production is a regular practice in Gujarat and other western parts of the country. But the quality of these



panels is not up to the mark, and these are often sold at a lower price. While the cheap furniture market flourishes on such inferior replacements, wood is the favourite among the high-end furniture manufacturers.

What sectors (housing, furniture, railways, defence forces) are the biggest markets for plywood, particle board and fibre boards?

The biggest markets for plywood are still the housing and furniture sectors, along with institutional consumers, such as the railways and defence forces. The furniture market is good for particle boards, and fibre boards are making their way to a good market share in housing.

There is a sea-change when we look at the mind shift from using regular plywood to particle boards. It is a trend set by the organised furniture manufacturers. If I were to quote an example, the use of plywood in India is a whopping 85%, while the consumption of particle boards and fiber boards is a meager 15%.

There is a good reason for it: till today most furniture is made by hand. But with the coming of international furniture brands and use of high-end machines, the use of panel products is bound to go up.

What are the technological challenges faced in manufacturing top-class particle and fiber boards in India?

I wouldn't call them technology challenges. The buck stops at investments. If a manufacturer is ready to invest in world-class machinery, there is no other hurdle as such.

For instance, we have the best European machines, backed by revolutionary technology, to churn out world-class products. Both technology and machinery play a pivotal role in the making of fine products. All products manufactured at our plant are even better than the European products themselves! It is as simple as that.

In terms of quality standards and public health, norms are not being enforced in India. There is inadequate legislation as far as consumer health (e.g. VOC emissions) is concerned. What can be done to make plywood and panel manufacturers more accountable on these counts?

The industry cannot be in a state of denial when it comes to health norms. We manufacture varied products with different emission grades, ranging from E0 to E1 and E2. But in India, 90% demand is for E2 grade products, which have more VOC emissions.

These plywood and panel manufacturers cannot be held accountable for it: every manufacturer has to cater the demands of the consumer. Although Action Tesa was the first in India to manufacture products with lower emission grades (E1 and E0), being more expensive they are not preferred over the regular E2 products.

I think the responsibility weighs more for the government, to make it mandatory to use low emission products. And why doesn't the government start with its own projects? This might be the first step to increase consumption and also send a message to the nation at large.

The wood-based panels manufacturing industry is largely unorganized and unregulated. What are the pros and cons of such a situation? Where does the solution lie?

The common saying goes: 'everything has its benefits'. I think there are none (benefits) when it comes to being unorganized. It is about time to get organized. The unregulated and unorganised sector might escape a few taxes and cut quality corners. But if we talk of the bigger picture, if we talk of the overall prosperity of the economy, there is nothing more beneficial than getting organized. 🇮🇳



The furniture market is good for particle boards, and fibre boards are making their way to a good market share in housing.



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Bangalore-based V3 Engineers Pvt. Ltd. is a 23-year-old panel-based furniture manufacturer with 13 design patents and several awards up its sleeve. It is the first Indian company to have an ISO 9001:2008 certification for furniture. Its full complement of solutions spans office and home spaces, interiors and retail furniture. *WoodNews* spoke to its founder-Director, **Mr. N. Vasu.**

The domestic market for wood- and panel-based furniture is expanding at more than 30% annually. Does India have the manufacturing infrastructure to meet such demands?

Although there are a few companies with good capacities, more is needed for the expected growth potential. Most companies have infrastructure for project-based batch manufacturing. This is achieved with standalone machines, the output of which is limited.

While there is a market for this, what is needed to feed the huge demands of the likes of Ikea and other e-commerce entities is dedicated

high-speed lines. Panel processing lines include cutting, lipping, routing, drilling, packing, etc. We must be geared up for real mass production with little manual intervention.

What will be required to further build such an infrastructure? What scale of financial investments and time frame would be required?

This would call for 50,000+ square-foot space for manufacturing, warehousing, logistics, etc. Fortunately, most such setups can be up and running within a year, including the construction of the building.

Investments on machinery would be

between Rs 15-30 crore, depending on the scale adopted. Software is also an important aspect. Most Indian companies make the mistake of not investing in mechanized feeding, loading and unloading systems, while spending large sums on high-end CNC lines. This defeats the purpose as the machine or line is only as good as the speed at which it is fed and unloaded.

One hopes the government supports the organized furniture industries with better benefits like subsidised land, lower interest on capital and industry-friendly labour laws. The 'Make In India' movement could provide good impetus for better growth.



What sectors (housing/ office/ hospitality/ commercial) are the biggest markets for panel-based furniture? Why are the others lagging?

There are two types of finishes in panel-based furniture: laminate/ pre-laminate and veneer. Office and commercial spaces and housing are big markets for furniture with laminate/ pre-laminate finishes. Most hospitality industry requirements are in veneer finishes.

However, the volume of business in laminate/ pre-laminate will be much higher than veneer-finished products. Also, veneer finishing needs additional infrastructure in the finishing process. This requires additional investment, which can be quite substantial.

What are the technological challenges faced in manufacturing top-class panel-based furniture in India?

Fortunately, there are not many technological challenges in the panel processing industry. Most top international machinery companies already have a good presence in India. Sales and service is well taken care of. Also, we have a good computer-literate (CAD/CAM) manpower pool available in our country. Good training will take care of most issues. The most appreciable point is that machine operation and programming is made simple from the operator's perspective.

What market challenges do Indian panel furniture manufacturers face?

The main challenge is/would be availability of good raw material at attractive prices. The quality and pricing of raw materials – boards, PLB and MDF – will be critical to compete with imports from China, Malaysia, etc.

Uninterrupted power supply is still a cause for concern. As the market

“India has scope for improvement in good product designs, painted and lacquered surface finishing, and better productivity and quality control on the shop floor”

becomes more and more competitive, product pricing will increasingly play a key role. Needless to say design, quality and timely delivery should be the strong focus.

Finally, the investment must be made effective with good and early ROI (return on investment) by managing the business efficiently, with lower overheads and better productivity.

How do they compete with imported furniture (especially from Malaysia & South-East Asia)?

All panel-based furniture is machine-processed, with almost no manual work. Hence quality-wise we are close to imported products because the processes, machinery and consumables used are similar across the region. But India has scope for improvement in good product designs, painted and lacquered surface finishing, and better productivity and quality control on the shop floor.

However, higher costs of input/ raw materials will still be a major obstacle to competing with imported products from South-East Asia and China. Here industry-friendly government policies on duties, taxes, labour laws, financial costs and interest will play a major role.

In terms of quality standards and public health, norms are not being enforced in India. There is inadequate legislation as far as consumer health (e.g. VOC emissions) is concerned. What can be done to make panel and furniture manufacturers more accountable on these counts?

Strict laws and action against defaulting companies on set norms will help to a great extent. Just like the government has tax and excise audits on organizations, audits on material usage and work place safety will act as a good deterrent. Apart from this, industry associations and trade bodies can take proactive steps in having workshops and seminars on the subject on a regular basis.

The furniture manufacturing industry is largely unorganised and unregulated. What are the pros and cons of such a situation? Where does the solution lie?

India still needs a lot of small businesses and individual carpenters to cater to the large population with limited means. Rural India is a big market that depends on this sector. This is a parallel economy in itself, giving employment and livelihood to lakhs of people.

The good news is, availability of better material, basic machines and power tools is enabling better speed and quality of work in this segment. The bad news is that disregard to rules and regulations and absence of formal training is impacting the performance of the sector.

The solution lies in creating an environment in which the unorganized sector is given a support system to scale up in overall performance and also contribute to the growth of this industry and the economy as a whole.





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Growth lurks round the corner?



Statistics relating to the 4th edition of the international woodworking trade show point to a growing interest in doing brisk business in the years to come. But how has DelhiWood contributed to this?

DelhiWood 2015, South Asia's largest international trade show for furniture production technologies, tools, furniture accessories and raw materials, completed its fourth successful edition at the India Expo Centre and Mart in Greater Noida, near New Delhi.

Like its bi-annual predecessors, this year also DelhiWood (4-7 February) attracted the right audience to check out for itself the developments in woodworking technology, materials and products.

There were more than 16,000 footfalls over the 4-day trade show, of which more than 12,000 were unique visitors. The unique visitor count saw a jump of 40% against DelhiWood held in 2013.

Visitors who flocked to DelhiWood this year came not only from the National Capital Region (New Delhi, Noida and Gurgaon), but all woodworking hubs of Haryana, Uttar Pradesh, Punjab, Uttarakhand, Rajasthan, Jammu & Kashmir and Himachal Pradesh.

There was a stream of visitors from West Bengal, Jharkhand, the North-Eastern states (Arunachal Pradesh, Assam, Manipur, Meghalaya, Nagaland, Sikkim & Tripura), as well as from Gujarat and Madhya Pradesh.

Worth its grain

This time around, there was fresh excitement on account of three related events:

- Furniture retail giant Ikea's 'Communication Platform', in which the multinational expressed its sincere interest to raise its sourcing



from Indian manufacturers.

Ikea has been doing business in the country for the past 27 years, but is now seeking to expand its sourcing base to wooden and bamboo furniture and gifting items – for its stores across the globe!

- A special ‘Sourcing Forum’ for furniture manufacturers and online retailing entities to interact and do business together – a first for India – which attracted more than 120 furniture makers from all over the country.

Top online retailers (eBay, FlipKart, FabFurnish, HomeLane, PepperFry, SnapDeal and UrbanLadder among them) participated in the “know-your-manufacturer” opportunity to better understand woodworking and identify potential partners in commerce.

- *WoodNews*’ panel discussion on ‘Make in India: Opportunities for furniture manufacturing’, which took a serious look at the opportunities and challenges that lie in the years to come. (Reports in the following pages).

Organised by Bangalore-based PDA Trade Fairs, DelhiWood and IndiaWood have been instrumental in attracting international machinery manufactures to set up shop in India, thereby generating employment. Today, these very companies are not

only manufacturing for the Indian market but also for export.

Deep reach

Apart from wood and panel-based furniture manufacturers, there were suppliers, retailers and buyers of lumber/timber, furniture fittings and accessories, alongside architects and interior designers. Considerable interest was generated among visiting students of engineering and architecture colleges in the NCR.

DelhiWood this year featured 393 exhibitors from over 20 countries, showcasing the latest in technology, hardware, software, tooling, consumables, fittings and accessories. About 55% of the exhibitors were Indian companies and the remaining 45% were foreign entities.

What Was New?

- 20% increase in space compared to DelhiWood-2013
- Unique visitor count also saw a jump of 40%
- ‘Sourcing Platform’ connecting manufacturers, retailers
- Substantial increase in space taken by machinery exhibitors
- Increase in participation of materials & supply side
- Increase in space taken by Canada, China & Italian pavilions.

Live demonstrations of machinery – among them log peelers, panel saws, hot presses and edge banders – brought alive the excitement among visitors. A majority of international companies were represented by their Indian distributors and agents.

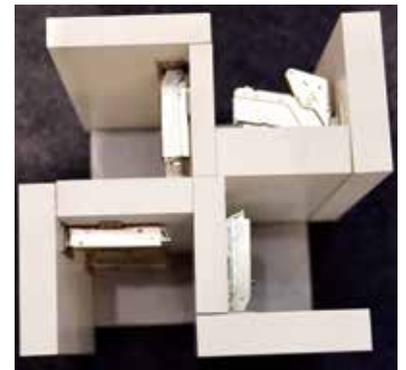
There was a substantial increase in space (20%) taken by machinery exhibitors, compared to the previous edition of DelhiWood. The 17,600 square metres of space was lapped up by Indian (70%) and foreign (30%) countries, well ahead of the exhibition.

The country pavilions of Canada, China and Italy also increased their participation. There was substantial increase in exhibitors from the materials and supply side, with a lot of new entrants in the industry.

All this points to the continued upbeat sentiment prevalent among exhibitors and foreign governments about the Indian economy in general, and its woodworking industry potential in particular.

In extension, DelhiWood offered yet another opportunity to small, medium and large wood-based manufacturers to familiarise themselves with the latest in technology, machines, materials – and business opportunities! – to gear up for the demands of the burgeoning Indian market.





'Sourcing Forum' a huge success on debut



A first in India, WoodNews brings manufacturers and retailers face-to-face, to jointly script their growth stories

More than 260 meetings were organised by WoodNews at the day-long 'Sourcing Forum' during DelhiWood 2015, between online retailing giants and furniture manufacturers.

The special 'Sourcing Forum' for furniture manufacturers and online retailing entities to interact and do business together – a first for India – attracted more than 100 furniture makers from all over the country.

It was a coming together of online furniture retailers – including eBay, FabFurnish, FlipKart, HomeLane, PepperFry, SnapDeal and UrbanLadder – and more than 100 top manufacturers from across the country. More than 260 meetings were organised between the retailers and manufacturers, holding out promise of wider business opportunities in the future.

Teams from e-retailing giants were overwhelmed by the focussed response and well-organised platform offered by WoodNews magazine, to expand the industry ecosystem by including marketing entities.

Representatives who participated in the "know-your-manufacturer" opportunity, sought a better understanding of woodworking and its products, and to identify potential partners in commerce.

Online furniture retailing in India has revolutionised the industry, creating new, direct-to-home avenues, thereby opening up huge business opportunities for new entrepreneurs and existing manufacturers.

Ikea's idea

Ikea, the world's largest furniture retailer, is planning to double its sourcing from within India in the coming months. Towards this, it is on the lookout for entrepreneurs and furniture manufacturers who can become long-term business partners.

On 5 February, its representatives held confabulations with more than 100

furniture manufacturers from across the country, to explain their business philosophy and needs, and to identify prospective business partners.

Ikea has been doing business in the country for the past 27 years, but is now seeking to expand its sourcing base to wooden and bamboo furniture



An Ikea marketing representative making a presentation.



 Interested furniture manufacturers ponder business opportunities...

and gifting items – for its stores across the globe!
Ikea presently sources € 315 million (US\$ 370 million) worth of goods from India – mainly textiles and rugs for furnishing, bed & bath. It plans to double its sourcing by the year 2020. There are currently 361 Ikea stores in 45 countries marking € 30 billion in sales turnover in 2013.



 and clarify doubts with Ikea's representatives.

Ikea shares global knowledge with its suppliers on cost of production, efficiencies, manufacturing skills, design, technologies, competence development, quality standards, management practices and sustainability in developing global competitive advantages. It works closely with suppliers in setting up efficient and sustainable production processes to create affordable products with good design and quality.



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Walking the talk to meet market opportunities



At DelhiWood 2015, *WoodNews* magazine held a panel discussion on 6 February, on ‘Make in India: Opportunities in Furniture Manufacturing’, with the aim of taking stock of the industry’s preparedness to take on the challenge. Mr Nitin Vaze was gracious enough to play the anchor. Read on to find out what various sections of the industry felt about it...

On the Panel

- Mr Sandeep Mukherjee: Managing Director, Quetzel Designs India: furniture manufacturer
- Mr T. Gopi: Managing Director, Woodtech: machinery manufacturer
- Mr S.P. Bhasin: President-Marketing, Associate Decor: panels & board manufacturer
- Mr Nitin Vaze: CEO, Sleek Boards: product supplier

Vaze: When we set out to think if India is ready for this 'Make in India' challenge, I see two main shortcomings: the lack of awareness about pollution, and the absence of regulations and standards in furniture manufacturing. I wish to note that there is no legal binding on formaldehyde emissions in India; we are still ignorant.

More than two-thirds of the world has control over these emissions. The 28-nation European Union decided in 2006 to reduce the use of formaldehyde-emitting boards, which are unsafe for human lives. If we in India are concerned about pollution from motor vehicles, electricity generation plants and mining, why aren't we concerned about emissions from wood panels?

Having spoken my mind, I would like to ask the panellists seated here what they think of the industrial preparedness to meet the challenges of 'Make in India'?

Gopi: Looking at the volume that is consumed by the woodworking industry, manufacturing machines in India has now become imperative. For that we need considerable investments and appropriate technologies. We also need to have an organised network of suppliers of quality components, which is missing in India.

Joint ventures with companies of proven record is essential at this stage.

In fact some companies from Germany, Italy and other European countries have already struck the right notes by manufacturing in India.

Bhasin: The panel industry is already at the top of furniture manufacturing. I'm happy to say that our investments in manufacturing world-class particle board have made us self-sufficient in particle board for furniture. But yes, we have no norms in checking emission, there is no legal compulsion here in India to keep it under control.

The world over a major portion of requirement in furniture is covered by particle boards, but in India particle and fibre board use is very low. The Indian market still looks to solid wood. Our raw material is waste wood. By accepting particle and fibre boards in furniture, we'll be able to conserve our forests.

Sandeep: The opportunities for 'Make in India' are huge and the market potential is tremendous – not just in India, but all over the world. But we are

pretty unorganised at this stage. For the furniture sector to be attractive an eco-system needs to be in place. It is not yet present, but I can say it is just about to take off.

Talking about sustainability, many of us manufacture on a large scale. We need to have sustainable raw material available for us, and we need consistency. This is almost impossible in our country, because there are no rules which govern this. So we are forced to import. There is nothing wrong with importing, because we get it from certified and sustainable sources in Europe, North America and Australia. Most importantly it is consistent, we don't have problems with that.

Vaze: Do we have enough manpower in India to work in an organised set-up?

Sandeep: The industry is very small right now, and the same people move around various companies. I think we – private entities as well as government agencies – really need to take active

Helping handicrafts

Mr Samir Biswas, Deputy Commissioner, Handicrafts, Govt. of India, inaugurated the panel discussion. He said the exhibition sector is a strong player in the new government's agenda of 'Make in India', and remarked, "This event is successful and the response is visible by looking at the crowds for enrolment at the gates. I am really very happy to be here."

Noting that about 40% of the machinery on display at DelhiWood were manufactured in India, he said up to 80% of the production of woodworking machinery can be done in India, to tap the potential. "The market is growing very fast and there is tremendous scope of increasing exports. There is a lot of strength and potential that can be leveraged for the benefit of entrepreneurs," he said.

In handicraft each piece is unique and takes time to make. "If we can reduce the drudgery in handicraft production and improve the quality, bring in mechanisation to some extent, from this perspective it is very important to us," he added.



interest to increase our skilled and semi-skilled labour base. Perhaps we should begin with ITIs (Industrial Training Institutes), to develop a comfortable base of woodworking professionals.

The most important thing which I feel will make a big difference is design. Why only 'make in India'? I say 'Design and make in India'. We need to build our own brands; we need not be the

back-end of the world, like China is. Yes, China has an economic advantage: it built itself based on back-end manufacturing for the world, they are way ahead of us when it comes to manufacturing and value engineering. But if India has to grow, we need to add design and build value. Right now, this is not happening.

Vaze: On the quality aspects of the panel trade, I think the machinery

manufacturers have a great role to play.

Gopi: As far as quality is concerned, we need to have the best technology in manufacturing machines, as well as handling systems. Like Sandeep said, design is important. But I think what the furniture industry needs is innovation, and we haven't seen any of it so far. Good technology will bring your products on par with global standards, but to stay ahead of competition, we need innovation.

Vaze: In the panel industry, why are Indian Standards not followed?

Bhasin: This is not true of all panel manufacturers. Many among us are putting in a lot of effort: we use FSC-certified wood, our products meet ISI standards. But when it comes to furniture, or the material that goes into making it, there is no public awareness and demand.

If consumers are made aware about standards in wood and panels, it will help the industry. Strict adherence to standards will mean that we will all have to use better raw material and machinery. We all will be forced to make better investments in technology and innovation. It will be for the good of all.

Vaze: In the face of quality norms and global standards, can 'Make in India' sustain itself?

Sandeep: Like I said earlier, the woodworking industry is too small right now. It needs to reach a critical mass before we can talk of sustainability. Somebody starting with a little capital, with just two machines, is great entrepreneurship. But once they invest in the machines they need to survive. So the first part is survival. Only if we get past survival can we think of enhancement, how to get better, and how to compete globally.

Quality is a state of mind and a state of make. We in India make do with a lot of *jugaad*. In order to get something done, we put few things together and we make it work. But will it not blow up in

5 - fold path

According to Mr. Satyan Thukral, CEO of Caple Traders in Mumbai, 'Make in India' will merely remain a slogan unless it works for small and medium enterprises (SMEs).

First, he insisted, make land available on 25-year lease with good road connectivity, power and water. The availability of these resources, even in remote areas in Germany, have helped its companies to go global. In India, workshops still are in expensive urban areas, he noted.

"Second, make available easy and fast loans to small and medium enterprises at 10% rate of interest. Make these loans free of collaterals. Just as easy home loans and car loans have given a fillip to the housing and automobile industries, easy loans to woodworking SMEs will boost productivity and competitiveness," he said.

Third, make taxation as simple, transparent and close-ended as possible. Fourth, make woodworking machinery tax-free. "Good quality and competitively priced furniture can come only from good machines, and these don't come cheap," he stressed.

Another important aspect about realising the 'Make in India' dream is to introduce skill development programmes through all out industrial training institutes (ITIs) and government-run engineering colleges. "We need to upgrade the tool rooms, machines and education being imparted to the youth in these educational institutions."

The new education curriculum must focus on 'zero defect, zero effect'. Here 'zero defect' means high quality, and 'zero effect' means the safety of the worker and the environment, optimization of time, labour, cost, output and space.

Expensive land, finance, labour, machines and taxation has made Indian furniture manufacturing uncompetitive in the domestic market and prevents India from exporting its products. "The Chinese manufacturing and marketing system is hitting us hard every day, for which India is responsible, not China," he added.



your face later? You don't know! I can definitely say that compared to 5 years ago many more companies are now following quality standards strictly. I feel it will take another 5 years for things to fall in place.

Vaze: Do you expect any government support for the industry?

Bhasin: Yes, on two counts. If we want quality panels in our country, we need to have forestation. Here we expect government support for the industry, to make land available. Second, there should be level playing field. Today there is zero import duty on particle boards, and that is good.

But we have excise duty, and for the same application on some other products, there is no excise duty. These anomalies also lead to devaluation of the product. My suggestion is that products for a certain application, made of any raw material, be it particle board or MDF, should have a level playing field. There should be no discrimination.

Sandeep: What to expect from the government is quite complex. Capital? It's not easy to ask the government to give us the capital at a decent interest rate, because it is governed by a whole lot of factors. But furniture manufacturing is a capital-intensive venture, you need technology to churn out good quality products.

Furniture is a bulky product and needs space to process, to store raw material, store finished products and more. In China you can't own land, you can lease it. The moment it comes to owning land, the game of arbitrage begins. You buy some land at Rs 100 and sell it at Rs 200, the industry can't afford this. After getting land you need electricity, water etc. So, from the government, we need these things to be facilitated.

Vaze: How do you foresee the growth in the industry over the next 5 years? Will we be able to meet the demand of Rs 5 lakh crore worth of business?



Mr. Nitin Vaze anchoring the panel discussion.

Gopi: We don't have a clear policy from the government on furniture manufacturing; licensing is a problem; there is a lot of misinterpretation of laws. For example, there are some kinds of saws that require a licence, and some that do not. If the law aims

to avoid illegal sawing of timber, then sawing of FSC-certified timber should be allowed. Currently only imported timber is allowed to be sawn.

We have timbers, but we don't have enough capacities in the saw mills; new licences need to be offered. As far as growth is concerned, there is a huge opportunity. Perhaps furniture worth Rs 5 lakh crore is already being manufactured: we don't know it because most of the industry is still unorganised and unregulated.

Sandeep: Not Rs 5 lakh crore, but may be around Rs 2 lakh crore in another 5-7 years if (Prime Minister) Mr. Modi really pushes his 'Make in India' policy. We have a lot of talent in our country; we have entrepreneurship which is fantastic. In another 5-7 years the industry will change, it will get more organised.

E-retailers are coming in and they will expect more organised sources. More people will start setting up supply chains, making material available all over the country. The likes of Ikea and Walmart are already sourcing from India; and if we are to meet their expectations, the furniture manufacturing industry has to rise, get larger, and organise itself.



The audience threw up several questions and suggestions.

An app for seamless manufacturing



Use of software in design and delivery of furniture is a trend steadily getting hold of the woodworking industry. Imos, a made-in-Germany software for planning, construction and manufacturing of furniture and interior decoration, was demonstrated during DelhiWood 2015.

Imos allows for virtual realisation of an imagined piece of furniture in a room in 3D and gives freedom to the buyer to choose an item of his choice which fits tidily in the space.

Further, it continuously accompanies the manufacturers of furniture and interior design from sale and planning, presentation and design through to the final manufacturing. The industry-specific 3D design tools are linked with modern machines and new communication platforms, so that an individual piece of furniture or complex design concepts can be realized economically.

Accuracy in detail and consistency ensure more security in the manufacturing process. The modular structure of Imos allows a step-by-step implementation into the company.

Imos is a mobile/tablet based application which combines the complete know-how the furniture industry has to offer. It simplifies the processes in the planning and the production of furniture and interior design. Its solutions are based on an innovative technological approach allowing all possibilities for designing



furniture and modifications in every step of the process, but ensures an internal manufacturing standard.

The Imos 360 (360 stands for 'circular' or 'closed', in terms of space, time and process) makes it possible to involve the end users in the design and order process of the furniture manufacturer. It is a modern communication platform for the exchange of order data between manufacturer and customer. The manufacturer provides his customer the design and presentation data out of Imos CAD via the Cloud. The customer uses his smartphone or tablet to look at the projects or comment on them. The result: the customer becomes an active part of the process chain.

Imos 360 is offered as an add-on to Imos CAD 11.0. The customer can download the necessary Imos 360 apps easily and free of charge out of the AppStore.

Cloud Distribution

This makes the design and production process of individual furniture highly flexible. The trade of materials and/or fittings can therefore integrate actively

in the production process and widen the range of its products together with a production partner. With Imos NET furniture can be designed per mouse click and orders and data distributed to production partners and trade. The solution is especially for trading companies who would like to extend their offer for semi-finished parts without plunging into the production world.

The modern machine application is an essential precondition for the secure and economical implementation of more flexible design methods. Imos directly transforms the planning and design data into machine-readable formats. With Imos CAM all necessary manufacturing documents and CNC programs are automatically derived from the 3D design data and material information.

All common machine manufacturers are supported in this system. The most modern technology is implemented in the CAM modules whether graphic programming of 5 axis machines or special functions for solid wood processing.

Dr. Frank Prekwinkel founded the software company in Herford (Germany) in 1993. Today the software is available in 16 languages and is applied in more than 3,000 companies in the furniture industry, in the contract business and in interior design companies.

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Rover S-FT: Automatic nesting cell from Biesse



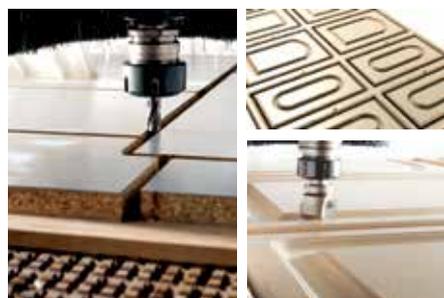
Biesse has introduced the new Rover S-FT, CNC machining centre with a gantry structure. The Rover S-FT features a loading and unloading table and is an automatic nesting cell for nested-based manufacturing.

Nesting means placing a group of parts close to each other in order to optimise space utilisation. This strategy is used in several industries such as plastics, leather and metal, where the cut can be performed in various manners like routing tools, laser, water jet, etc.

For the undoubted flexibility in production it provides, this process is popular in the US and Australia, and now it is gradually catching up in Europe as well. The main distinction between traditional woodworking processes and nested-based manufacturing lies in the way the board of the material is processed.

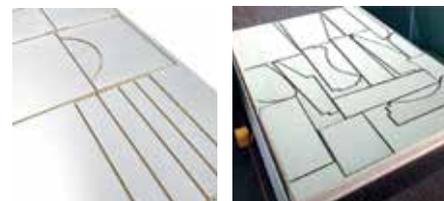
In traditional manufacturing, raw materials like particle board, MDF, plywood, acrylic, laminated board, etc. are cut by a sliding panel saw or NC beam saw, after which the pre-sized panel goes through an edge banding machine and on to a manual machine

or a CNC machining centre for routing & drilling, before it is ready for final assembly at the end.



Nested-based manufacturing, on the other hand, eliminates the pre-sizing operation and combines the sizing with routing and drilling on a single machine. It eradicates the additional material handling going through the factory by taking care of all the process steps in one shot, achieved by nesting the components into one sheet and creating a program to cut out as many different shaped and drilled components as possible.

The nesting operation is performed automatically by a CAM software that combines and optimises all the necessary geometries out of a single board.



While the traditional system has proven to be effective for mass production, the nesting method carries advantages when batch sizes are smaller. The timeline of the whole process is cut down to the bare minimum as the single machine completes most of the machining operations in one go.

The main accomplishment of this system is allowing furniture manufacturers to produce single customized parts, in quantities as low as one piece, and with the least amount of material handling required. This follows the just-in-time concept, whereby manufacturing as well as packing happens on a job-by-job basis.

Advantages of Nesting

- Material saving: nesting provides maximum material saving,

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especially on shaped and non-symmetrical parts.

- **Set-up time:** there is virtually zero set-up time for preparing the work cell and placing the boards on the machine table. This is a critical advantage over traditional production systems, where manual machines need to be set up for every single, or batch of components.
- **Material handling:** one of the prime reasons for adapting a nested-based work cell is to solve material handling problems. In most factories, workers spend as much time in handling, moving, stacking and unstacking components, as they do processing them.
- In nested-based work cell, an operator loads a sheet onto a CNC router, and a few minutes later he is ready to unload finished components which are all cut and routed.
- **Floor space:** a nested-based work cell can function in a smaller space.
- **Quality:** increased quality is a big advantage in a nested-based manufacturing. Every single edge of the panel is routed instead of being cut with a saw blade, and parts are sized to the accuracy of a CNC router.
- **Time:** the advantages in terms of the timing of material flow in the factory (from raw materials to a finished product) are enormous.



Machine features

The vacuum 'working table' of the machine is available in both phenolic



and aluminium versions, with 5 different table sizes, ranging from 4-7 feet in Y and from 8-14 feet in X.

As far as the operating units (electrospindle and boring head) are concerned, there are many options to choose from: HSD electro-spindle of ISO/HSK 13.2 kW or HSK 19.2 kW rating. Boring head from BH 10, BH 17, up to BH 26 are available.



Tool pre-setter

The contact pre-setter device allows to automatically measure tool length. Every time a tool is mounted on a tool holder it is only required to take a rough measurement and then launch an automatic presetting cycle. The

machine will then verify the exact measurement and update the NC tools table. This dramatically reduces the machine's setup time and completely eliminates any possible human error.



Loading / unloading system

The panels are stacked on a 'scissor lift' which has an aligner to align the panels along the Y axis. A hydraulic piston system raises the stack to the proper position for the automatic loading picking point.



The 'vacuum cups system' mounted on the machine's beam picks up the panel directly from the stack and through a re-aligning cycle, performed with the sweeper arm, allows the correct positioning of the panel on the machine.





PANEL PROCESSING MACHINES



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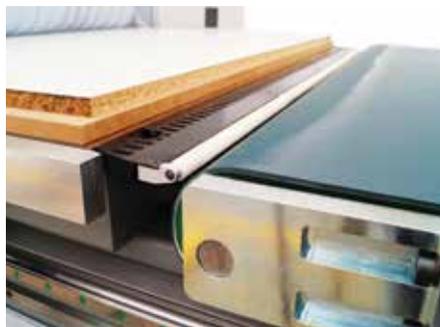
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The 'Sweeper Arm' is used to unload machined panels off the worktable. It is connected to the dust collection system, and performs a dual function: cleaning the spoilboard and unloading the panel.

The 'unloading belt conveyor' allows to unload machined panels away from the worktable of the machine,



drastically reducing downtime. The conveyor is motorized and, through the foot-pedal pressure, allows to move the panels toward its end, facilitating unloading operations and improving the machine's ergonomcy.

www.biessemanufacturing.com

WBP Birch ply from Eximcorp for Indian conditions



WBP Birch plywood, distributed in the country by Eximcorp India, is specifically designed to suit local high-humidity application conditions. It is a weather-proof, water-proof, fire retardant, delamination-free plywood that is also resistant to warping or twisting and is light weight and dimensionally stable.

This plywood is different than similar commonly available panel products in the market. Besides being uniform and accurate in thickness, WBP Birch plywood is free from core voids and is composed of equal layers of 1.4mm birch veneers with very high MOE and MOR.

It is the only plywood of its kind that is capable of being routed to any shape, as well as laminated on short cycle press. It remains dimensionally stable under -40 degree C to +52 degree C.

Eximcorp also supplies OSB-3 exterior grade panels that have excellent moisture tolerance and are suitable in both dry and highly humid areas of applications. It is free from insects and termite infestations even in its natural form.

In addition, OSB 3 has exceptional dimensional stability and a uniform structure with no knots or core voids and does not have tendencies to warp,

twist, cup or bend.

OSB is highly recommended as a structural wood panel and conforms to practically all international standards for applications in buildings, including sheathings and roofing, cabinetry and durable packaging.

Eximcorp India Pvt. Ltd. is a leading wood and wood panel business engaged exclusively in import and distribution of products derived from certified sustainable forestry in Europe and New Zealand.

www.eximcorp.co.in





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Putting safety, speed into new Festool sander



 Its compact design is particularly noticeable when sanding smaller areas, edges or narrow strips.

With its new electric random orbit sander, the ETS EC-150, Festool offers a combination of a compact design with clever ergonomics and intelligent functions to make it unbeatable in the world of sanding.

It is clear from the initial contact with the new sander that everything fits perfectly: its compact design is particularly noticeable when sanding smaller areas, edges or narrow strips at the body. Thanks to the high-performance EC-TEC motor technology, the new one-handed sander is smaller, lighter and more compact than sanders with carbon brush motors. Sanding by hand is thus easier.

With its brushless motor, the ETS EC-150 is extremely robust and wear-free and saves the annoying replacement



 The new ETS EC comes in two model versions with different strokes and sanding pads for various applications.

of carbon brushes. This makes the sander particularly durable, ensures fewer work interruptions and also protects the investment of the paint shop.

The new ETS EC comes in two model versions with different strokes and sanding pads for various applications: the ETS EC-150/3 with a 3-mm sanding stroke for fine sanding and extra-fine sanding, or as the ETS EC-150/5 with a 5-mm sanding stroke for light sanding and intermediate sanding of varnish and paint.

Reducing fatigue

The overall concept responsible for this is based on three fundamental design features: a lower height of just 116 mm, a powerful but compact EC-TEC motor, and a sophisticated

housing geometry with a balanced centre of gravity.

The result is a design that manages to be compact without sacrificing on power. And it makes the new ETS EC-150 the ideal one-handed sander to achieve perfect surfaces. The new vibration control system teaches the motor to think. An active regulation of the motor speed automatically reduces the operating life when vibrations are too high. The result is smoother operation and a greatly improved feel when sanding with noticeably fewer vibrations.

Work becomes safer with the unique suction detection of the ETS EC. When activated, it automatically ensures that the tool will only start if a suction hose is connected. This function can be easily enabled and disabled on models ETS EC 150/5 and ETS EC 150/3.

A feature that protects not just the work piece but also the operator, the pad brake, tipped with robust carbide, prevents the sanding pad from revolving too quickly when it is in a no-load state. It also enables the sander to be applied to a surface without producing grooves.

As with all Festool products, at the heart of the ETS EC is the requirement to think through every task from A to Z. That's why it also has matching accessories and perfectly coordinated consumables to optimize work.

Working professionally also means working efficiently, so there is also a matching transport 'systainer' for the ETS EC, as well as universally usable, mobile dust extractors to enhance the system, providing a healthy and dust-free working environment.

With this, a system emerges which is perfectly tailored to the task at hand – propelled by the idea of making work a little more perfect every time.

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LSBX panel sizing saw blade: 30% longer lifetime



Freud is a world leading manufacturer of circular saw blades, cutterheads, router bits and carbide for the industrial user. Among its solutions, the 'Silver I.C.E.' coating for industrial saw blades and the 'ISOprofil' system for window tooling are two such examples.

The core competence of Freud, which is unique to the world, is the 100% in-house production of micro-grain carbide, a combination of Titanium and Cobalt (TiCo) used for the cutting edge.

As a true partner for the cutting industry, Freud invests in research technologies in order to identify the most performing solution for each process. For example the latest LSBX carbide circular saw blades achieve the best result in panel sizing, thanks to improved manufacturing process which ensure 30% longer lifetime per re-sharpening cycle.

Furthermore Freud's unique "supersquare tooth" enables more numbers of re-sharpening due to a tip

thickness 30% greater than standard tips. The cut results are more precise as the tips lateral cutting edge is smaller, with a lower propensity to follow the wood grain.

Freud is represented in India by Bosch Power Tools division, based in Bangalore.
www.freud.it

IFT launches Spraytech 3M



Indian Finishing Technologies (IFT), buoyant with the exceptional recognition it received at IndiaWood 2014, showcased two indigenous finishing machines for the Indian woodworking industry: Spraytech 3M and Sandtech 6F at DelhiWood2015.

According to Sanjay and Karthick, the founder duo of IFT, which has a factory and a demo centre in Bangalore, Spraytech 3M is a quality machine at an unmatched price. The manual and automatic spray system has customised design, is operator-friendly, has online interface, and dedicated customer service.

The R&D wing at IFT came up with this flip mechanism with two axes oscillating system for pre-finished doors. Programming is done on the touch screen for full door coating. The machine can finish 35 doors in an 8-hour shift.

The Spraytech 3M claims to offer good return on investment, saves paints by using airless and piston pumps, paints

the edges and faces and has two cycles of operation for coating doors, single-stroke for open pore and double-stroke for closed pores.

The machine is equipped to coat high-viscosity lacquers, and has high consistency in application and repeatability. Also equipped with built-in stabiliser and safety devices, it can work doors of sizes 6-8 feet, with 6 Bar pressure at 10kW power.

Sandtech 6F is a manual sanding station with innovative features like a sturdy platform to arrest vibration during sanding application, high performance filters, and dust storage compartments for easy and eco-friendly operation.

The machine has a front end platform with 2HP blower to extract the sanding dust efficiently, and it can connect to hand sanders, orbital sanders, etc. With the working size of 6'x2' feet Sandtech 6F is a good investment with high operating efficiency.





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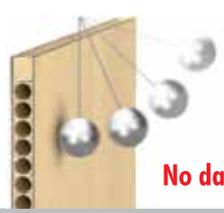
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www.sauerland-spanplatte.de

Jai expanding range of in-house, Euro-precision machines



International business events like DelhiWood have always been a gateway for industries to reach their buyers directly and make their presence felt amongst many big players. Participating in such trade fairs takes the brand closer to customers and serving them better, promoting region-specific markets and expanding the network and customer base.

Jai Industries' participation in the recently concluded DelhiWood 2015 exhibition witnessed more than 50 machines on display in 384 square metres, including its WudPro (solid woodwork) and Modula (panel processing) ranges.

The star attraction at DelhiWood this

year were Jai's new series of auto edge banders. Improved versions of the panel saw with new sliding tables, new and compact models of vacuum membrane press with big work tables, multi boring machines, CNC routers and band saws were also there for the taking.

The premium range of high-end featured solid wood working machines featured the three-side moulder, HDHQ spindle moulder, (auto) Rebato mould chain-n-chisel mortiser and many more. The machine demos provided thorough information, guidance from experts, and informative communication displays.

Jai Industries was able to get booked

several machines for immediate delivery, and generated inquiries (including many from overseas) that it says will keep prospective customers engaged with the company for a long time to come. Among the highlights at Jai Industries' stall were:



J-4700.in auto edge bander, a precision machine at low investment and operational cost to improve production, quality and profitability.



This is also available as the **J-4700P.in** model with pre-milling unit.

- Sturdy build heavy-duty machine to suit Indian working condition for precise application of edge banding material
- Robust feed chain & conveyor system with German gear box for effective pressure on panels
- High performance machine with feeding speed of 14 metres/minute
- Innovative pre-melting glue tank system consumes less than 50% glue
- No setting required to change from thin to thick PVC edge band
- Three edge banding pressure rollers actuated by pneumatic cylinders & gas springs
- High-frequency compact Italian motors sliding on prismatic guide ways
- All electronic and pneumatic parts are from well known international brands Schneider and Pneumax.



J-1250.in Compact is a new, bigger vacuum membrane press machine used for applying a uniform lamination of PVC, decorative papers and veneer till 0.4 mm on top surface and borders on flat and designed work piece having smooth space.

- Most suitable for factories having space constraint
- Vacuum abnormality wrapping technology
- More efficient, stable and long life high grade Bush vacuum pump

- Lamination of on one-sided prelam MDF/ particle board & solid wood
- One set of tray minimizer for optimal usage of work tray
- Silicon membrane offered for veneer application on flat surface only
- Silicon membrane sheet is standard supply with the machine
- Motorized movement of heater hood for opening/closing
- Short pressing cycles

J-3200.in (Manual) panel saw machine is an improved version with



precision sliding table with linear bearing developed with advanced technology for maximum rigidity of the double roller carriage.

- Precision sliding table with linear bearing developed with advanced technology with multi-chamber system for maximum rigidity of the double roller carriage
- 5 years warranty on sliding table
- Sturdy frame provides a rigid support for all cutting with telescopic cross-cut fence with aluminum guides for precise and easy positioning
- Panels to be squared and cuts at an angle up to 45° on both sides of the table
- Saw unit vertical movement on precise round guides ensures smooth operation
- Closed structure guarantees high rigidity and vibration-free unit
- Lifting and tilting of saw unit by hand wheels on front side for more convenience

- Electronic digital readout of saw unit tilt
- Scoring pin with memory reference stop for rapid re-positioning of the saw to a previous setting
- Extra second support for large sheet
- Rip fence with fine setting for precise positioning.

In its Prima range, Jai has introduced premium quality three-side moulder. **J-3230** offers width, thickness and shape in one pass, cost-effectively enhancing productivity.

- Sturdy built heavy-duty machine to suit Indian working condition
- Precise application of three-side operation in one pass
- Separate motor for each spindle to ensure efficient power transmission
- Powerful drives for cutter blocks delivers high torque for heavy duty cutting
- Top feed rollers for easy feeding of work piece with variation in thickness
- All spindles are adjustable and their key devices are positioned on front of machine
- Easy access, user-friendly control panel near in-feed for convenience.



Perfect, invisible joints with Invis Mx2

Invis Mx2 is an innovative system that satisfies the highest demands for aesthetics, stability and productivity in furniture joinery. With no visible openings, Invis Mx2 works efficiently and leaves perfect joints which can be detached if needed, simply by reversing the drill direction.

This system, from Lamello of Switzerland, was displayed for the first time in India at DelhiWood 2015, where the ingenuity and simplicity of the systems on offer opened the eyes of many experienced woodworkers.

Lamello has been providing connecting solutions for over 60 years, and feels the time is now right for the Indian market to also take advantage. It said that all demo models at DelhiWood were sold out.

The Invis Mx connectors and studs are quickly and easily screwed into prepared 12-mm drill holes using a cordless drill. The MiniMag is then fixed to the cordless drill and rotated on the surface to close the connection with a clamping force of up to 250 kg per connector.

The MiniMag Mx drive magnet is compatible with any standard cordless drill with a speed of up to 1500 RPM. The rotating magnetic field of the MiniMag Mx drives the connector, just as one cogwheel drives another, and the thread on the connector attaches screws into the internal thread of the stud, driven by the contact-free magnetic field. To undo the connection, simply reverse the rotational direction of the drill!

Among the advantages of the system: the connection is always detachable; the joints are powerfully screwed with 250-kg clamping force per connector; and there is easy handling due to the installation tolerance.

Applications

- Quickly detachable yet securely mounted table legs
- Invisible mounting of stairs on-site
- Join wall panels and separation walls without holes that need to be covered
- Transport fitted wardrobes and large items of furniture in multiple parts for quick, invisible assembly on-site
- Gluing aid for high-gloss surfaces without leaving marks on the delicate surface
- Clamp curved elements on-site without the need for complicated clamping devices.



Rasto universal drill jig complements Invis Mx2.

Rasto is a universal drill jig to complement Invis Mx2 and is particularly suitable for handrails. Constantly changing shapes make gauge construction a complex and elaborate process, Rasto represents the ideal solution to this problem, with no measuring or marking.

Thanks to three positioning pins that can be inserted into 180 holes, the drill jig can be mounted securely on virtually any surface. The drilled holes always align perfectly because the pin positions remain unchanged when drilling the second work piece.

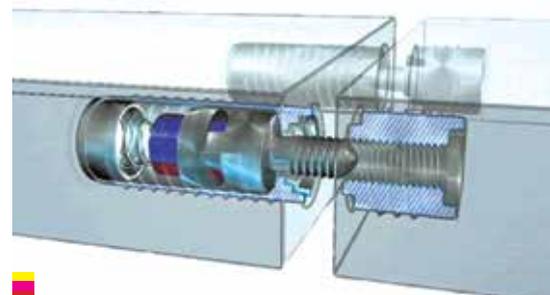


Lamello's Invis Mx2 system being demonstrated at DelhiWood 2015.

Rasto is made of transparent material for aligning to pencil marks when drilling work pieces with different shapes without the need to adjust the depth adjuster, thanks to the Invis Mx spacer. It has markings for drill holes at the centre of 16-mm and 19-mm panels, along with markings for kitchen hinge holes.

Applications

- 8, 10 or 12 mm holes for Invis Mx2 or dowels
- 5 mm holes in 32 mm grid for kitchen handles/ hinges
- Handrail connections
- Table leg connections
- Drill holes at centre of work piece
- Accurate expansion of 5 mm hole to 12 mm



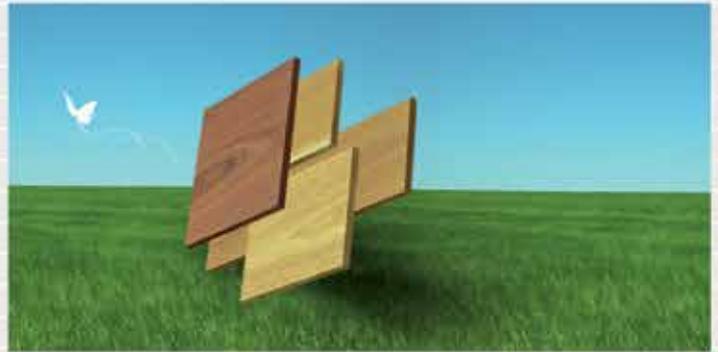
The MiniMag Mx drive magnet is compatible with any standard cordless drill.

For more info visit <http://www.lamello.com/en/home/join-wood/invis-mx2-system.html>.

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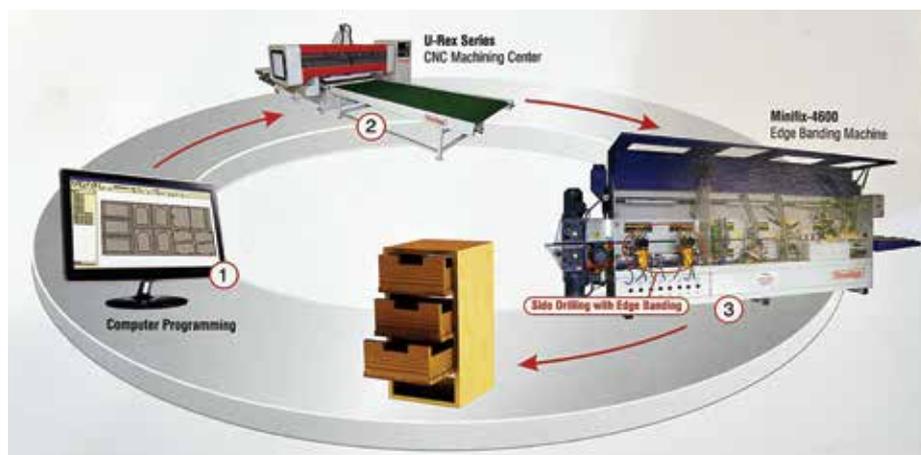
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PROCESS TECHNOLOGIES

Umaboy shows cost-effective way to making modular furniture

Shree Umiya F-Tech Machines, better known for its woodworking brand of Umaboy, has put together an integrated production system that all modular furniture manufacturers must give a serious look. This combination of its U-Rex CNC machining centre and a new invention, the Minifix-4600 edge banding machine, was unveiled during DelhiWood 2015.

This two-machine combination does away with the need for a number of other machines that are usually required for furniture making. This not only saves on cost, but also on time, material and labour: the entire system can be operated by only three trained woodworkers.



The Minifix-4600 has been patented in collaboration with the Turkish manufacturer, Mox Sabir, and offers the standard pre-milling, glue-spreading, bottom and top trimming with head-end cutting, corner rounding scraping and polishing operations.

But its unique proposition lies in the Minifix unit that also incorporates multi-boring function into the system. This can drill up to 6 holes at the same time on the horizontal axis.

The U-Rex CNC machining centre is a gantry based machine that offers automatic loading and unloading of work pieces; cutting, drilling and grooving without moving the panel on the machine bed.

Its nesting features facilitate shaping, carving and other processes in a single working cycle, saving material, time and costs. The finished work pieces emerging out of the router are ready for processing in the Minifix-4600 edge bander.

WoodMaster launches tested CNC router



The woodworking veteran from Ludhiana (Punjab), WoodMaster (India) Machines, was out in full force at this year's DelhiWood, with machines for solid wood, panel and bamboo processing.

The ISO 9001-2008-certified company specialises in advanced machines like saws, presses, through-feed edge banders, thermo forming and post forming units. WoodMaster introduced its rip saw for logs of 3-inch to 6-inch diameter, for the plywood industry.

But the centre of attention at the show was its WM-401 VC CNC router. WoodMaster began selling this machine in the 4-axis, 12x6-foot configuration even before it hit the Indian market. The machines were exported to Belgium, Tanzania and Egypt last year.

For the Indian market, WoodMaster is offering the WM-401 VC in the following configuration:

- Machine dimension: 3300x 1600x 1600 mm
- Working area: 1300x 2500x 200 mm
- Spindle speed: 1800 RPM (air-cooled)
- Machine weight: 1300 kg
- Spindle power: 3.3 kW
- Max feeding: 25 metres/ minute
- Operating software: NC Studio
- Surround for software: Win98/ WinXP.

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Associate Décor leads the change



Structured Surfaces is Associate's range of the finest, premium melamine-faced textured particleboards.

The furniture industry is seeing a change with manufacturers shifting from plywood to particle boards. The advantages of low cost, availability in various designs, and low turnaround time of sourcing material, to delivering the final product has increased the popularity of particle boards.

Associate Décor is one such manufacturer with the ability to create products that reflect consumers' evolving lifestyles. Its technologically advanced production processes and consistent product quality helps bring out most innovative melamine faced particle boards.

Associate's range of particle boards is available in various sizes. Its pre-laminated particle boards is the only brand that has the 1840 mm width, which allows one to get full size 6 feet output.

Its size range includes 9x6, 8x6, 9x5, 8x5, 7x5, 8x4, 7x4, 9x3, 8x3, 7x3 feet and thickness range available is from 6 mm to 40 mm. Associate Décor's particle boards are SCS-certified. The company also has India's first and only CARB-certified manufacturing plant.

Associate is committed towards consistently offering innovative product, and it encourages delivering only the best. This year at DelhiWood, its new Structured Surfaces textures grabbed everyone's attention, a testimony that style and smartness go hand-in-hand.

Structured Surfaces is its range of the finest and most premium melamine-faced textured particleboards designed so that one can't differentiate

it from the textured wood. The aim was to bring solid woods, veneers, fabrics and acrylic alive on particle boards, a feat not many manufacturers can boast of achieving.

The new range of MFC is inspired from various elements of nature, wherein Associate showcased the exotic, unseen and unexplored textures. The various MFCs are high gloss, glitz, ash luster, rippled, natural hand-scrape and Grazia.

The high moisture resistant (HMR) series is the next breakthrough product that can change the way you design your kitchen and bathroom furniture. The HMR boards are ideal for use in humid conditions. These boards pass the Australian

and New Zealand HMR grade specifications, which are much more demanding and stringent than any other international standard.

To prove the efficiency of the HMR grade particle boards, Associate Décor threw the 'Associate HMR Win-a-Lakh challenge' to the audience. The claim was that no swelling of more than 4% will show even after a 24 hours of water exposure. The contest had many takers; but the company claims that its boards successfully resisted all challenges to emerge as the only real winner.

In order to create awareness about the particle boards amongst architects and interior designers, Associate invited them and gave special tours of the booth. The idea was to educate on basic knowledge of particle boards and its advantages over plywood.

The biggest advantage of particle board is that it is eco-friendly, as it doesn't rely on huge logs of wood sourced from natural forests. The sources include the less desirable cuts that would not be used in plywood production, lops & tops, private plantations of eucalyptus, plantation wood crop and recycled wood fibers.

The government has been doing various promotions to highlight the 'go-green concept' and in line with the concept Associate Décor promotes the idea that next generation should be educated about the usage and benefits of particle board. To get the sample box of Associate's particle board range please write to digitalmktg.adl@associategroup.in



Associate Décor threw the 'Associate HMR Win-a-Lakh challenge' to its audience at DelhiWood.

FINISHING SOLUTIONS



WOOD



AUTOMOTIVE



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POLISHING



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MANUAL
TO
AUTOMATIC



SANDING

Felder sells 3000th machine in India



Felder-India Director Mr. Tushar Tandel (third from right) giving a memento to Mr. Shanmugam.

After more than 15 years' presence in India, Felder Woodworking Machines reached a milestone at DelhiWood 2015 with the sale of its 2,999th and 3,000th machine in India!

As with many of the machine sales in India, it was once again a repeat customer that placed an order with Felder, grateful for the fantastic service and high quality machines that he received in the past.

Mr. Shanmugam of Fashion Woodworks, Chennai, placed an order for two Format-4 machines, adding to the six others he is already using in production. "The quality of the machines has allowed my company to grow year on year," Shanmugam said, "My company's name and reputation

has become as solid as the machines that have helped build it!"

Premium is affordable

High quality, computer controlled, high-tech woodworking machines with accuracy to a 1/100th of a mm had, for a long time, only been a possibility for the large, investment strong industrial companies.

Format-4, for the first time, made premium quality for small and medium sized companies affordable, allowing them to remain competitive with professional productivity. Impressive detailed solutions and numerous innovations and patents have ensured that Format-4 has become an unbelievable success story over the past few years.

Modern production technology and strict production standards are prerequisites for excellent precision and best processing quality. Felder's in-house research and development department continuously implements new technical innovations, helping end customers to optimise their productivity.

Woodworking machines from Format-4 are top quality Austrian products: from panel saws to planers, thicknessers, spindle moulders, edge banders, wide belt sanders, beam saws and veneer presses, through to CNC processing centres with 5-axes control.

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Bamboo travels from Bangalore to Beijing



The Temple Hotel, an exclusive property next to the Forbidden City in Beijing, is an award-winning boutique hotel restored from a mid-18th century Buddhist temple. It also flaunts a World Heritage tag in China's rich and varied cultural space. That said, what in it could possibly remind you of India?

 *Bamboo furniture in the well-appointed guest suites, Dragon and Phoenix, at the Temple Hotel (inset) in Beijing.*



For one, you could chance upon Sanskrit-inscribed wooden panels, only 30% of the 180-odd that could be retrieved and restored during the painstaking renovation of the Buddhist temple and monks' quarters, spread over 3,500 square metres.

Second is the made-in-India bamboo furniture that furnishes its eight well-appointed guest rooms. It was made in 2011, in a workshop on the outskirts of Yelahanka town, near Bangalore, by the award-winning Sangaru Design Objects Pvt. Ltd.

Meet its Director, Mr. Sandeep Sangaru, a mechanical engineer from Hyderabad by education, who changed his vocation to wood and bamboo furniture after completing a post-graduate course at the National Institute of Design, Ahmedabad. He believes in and practices hand-made furniture by design.



How did the Chinese hotel project come about? "We were invited to the Beijing International Design Triennale in 2011, funded by the Chinese government to promote design in the country. One of the five different curated shows was 'Rethinking Bamboo', curated by a designer from Hong Kong called Freeman Lau," Sandeep recounts.

He saw Sandeep's designs in some publications – thanks to the Red Dot award for design in bamboo furniture – and invited the NID alumnus to the Beijing show. The furniture maker and designer were from Asia, bamboo is quite prevalent in Asia, and Sandeep's modern craft had been executed in the traditional manner: that is what clicked the selection.

Sandeep had only just launched his company and whatever came out of his studio-cum-workshop in Yelahanka for the Beijing show were the first finished prototypes! It consisted of chairs, tables, book shelves and long benches. "We focussed on quality as there were people coming from all around the world. My collection was the largest in the 'Rethinking Bamboo' collection..."

It was great exposure to the global bamboo community," says Sandeep.

Awards & Rewards

He calls the collection 'Truss-Me': pun intended! It consists of different variations of his construction technique – which he discovered and refined while teaching bamboo and cane artisans in Tripura – but revolves around the basic triangular module. On his return to India, Sandeep got a call from "a hotel owner" in Beijing who had seen his products at the show. Discussions led to the hotel owner travelling to Yelahanka.

"He wanted to know my products, so he came, he saw, he sat on the chairs, used the furniture, and selected some of the designs. He suggested gold and red colours, including on the cushions and upholstery, to match his hotel decor and the ambience of the still-preserved temple on the premises. I offered to customise the designs to his requirements. He went back and placed an order," Sandeep recollects.

Sandeep and his team of artisans (mainly from Tripura, where he trained them some years ago, under a government scheme) had some



The bookshelf also features the gold (natural bamboo colour) and red (lacquer) theme, made to specifications by the designer, Sandeep Sangaru (inset).



pictures of the heritage hotel for reference. There were notes Sandeep had made during the hotel owner's visit to the Yelahanka studio. Most of the temple's interior pillars had been painted red, centuries ago.

The gold colour came from the right choice and treatment of bamboo. But for the red, the team in Yelahanka had to reinvent the technique of lacquer application. "We had to melt it into polish. We had to apply at least 10 coats by hand to get the richness of the colour. The whole experience, and the lessons we learnt from it, are unique," Sandeep beams in satisfaction.

Even the cushions and upholstery had to be in synch with the theme, and of the highest quality in terms of material and workmanship. It was the one-year period before delivery that helped the Sangaru team to not only perfect its manufacturing techniques but also improve considerably over their earlier prototypes.

Apart from the guest rooms, the hotel has an art gallery, a permanent installation of a world-famous light

artist (James Turrell), a fine French restaurant. It has won several award, and was labelled the best urban hotel in the world by Wallpaper magazine. Sandeep and his furniture also feature in articles on the hotel.

Encore!

People who saw the products at the hotel liked them, they wanted to buy them. So the hotel has now ordered special editions for sale on its premises! "The hotel is opening a shop; they will sell art and designs from all over the world; we will supply them with our products; they will be the same ones we sell here in India," Sandeep gushes.

Other projects are already on Sandeep's plate. Before this he got repeat orders from an individual client in Paris: it began with a bookshelf, then widened to tables, chairs and benches. His company executed a project with Microsoft's R&D office in Bangalore, where the theme was to showcase Indian craft. Sandeep's products are contemporary and hand-crafted, so they fit in there.

There were lessons learnt there too: it was a big project, it involved big spending, and the deadline was short – "their consultants wanted 60 hand-crafted bookshelves in two months"! – but they were co-operative and supported his small start-up to find its feet.

What does he have to say to newcomers and woodworking entrepreneurs in the country? "Learning never stops. I am now trying to source bio-resins for gluing; it is best suited for bamboo, which is bio-degradable. This is what we want to achieve: we don't want to be a big company, but we want to offer the finest and best customised items to our clients."

– In conversation with Dhananjay Sardeshpande.



Each chair and other furniture is hand-crafted and hand-finished (left) and customised to the client's requirements (right).

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A woodworker's in-sight



Pic courtesy: KCCI-TV

With passion there is no limit to what a man can achieve! On World Wood Day (March 21), we bring to you the story of a man from Iowa, US, who with his limited physical abilities has achieved something that is hard to imagine.

Clay Gurganus is a blind woodworker – you heard it right! Clay is totally blind and he builds a variety of furniture and other wood items, such as a stand for a 75-gallon fish tank, an entertainment centre with matching end tables, and things like chess boards, in his fully fledged garage shop.

All of his creations are made of solid wood, each item hand-crafted and one

of a kind. He works with machines like routers, presses, sanders, and power saws, and has all his fingers intact!

Thirty years ago, when Clay was only 23 years old, his world suddenly turned dark. It was one of the evils of diabetes which stole the light from his eyes. He underwent numerous eye surgeries, but none were successful. By 1984, he was totally blind. But Clay was not the one to give it up just like that.

“You’ve got to face your fears, because fear will cripple you,” he says. “You’ve got to have an attitude of ‘I can do this’ or else you’re not going to make it.” But at home, he is on his own in his

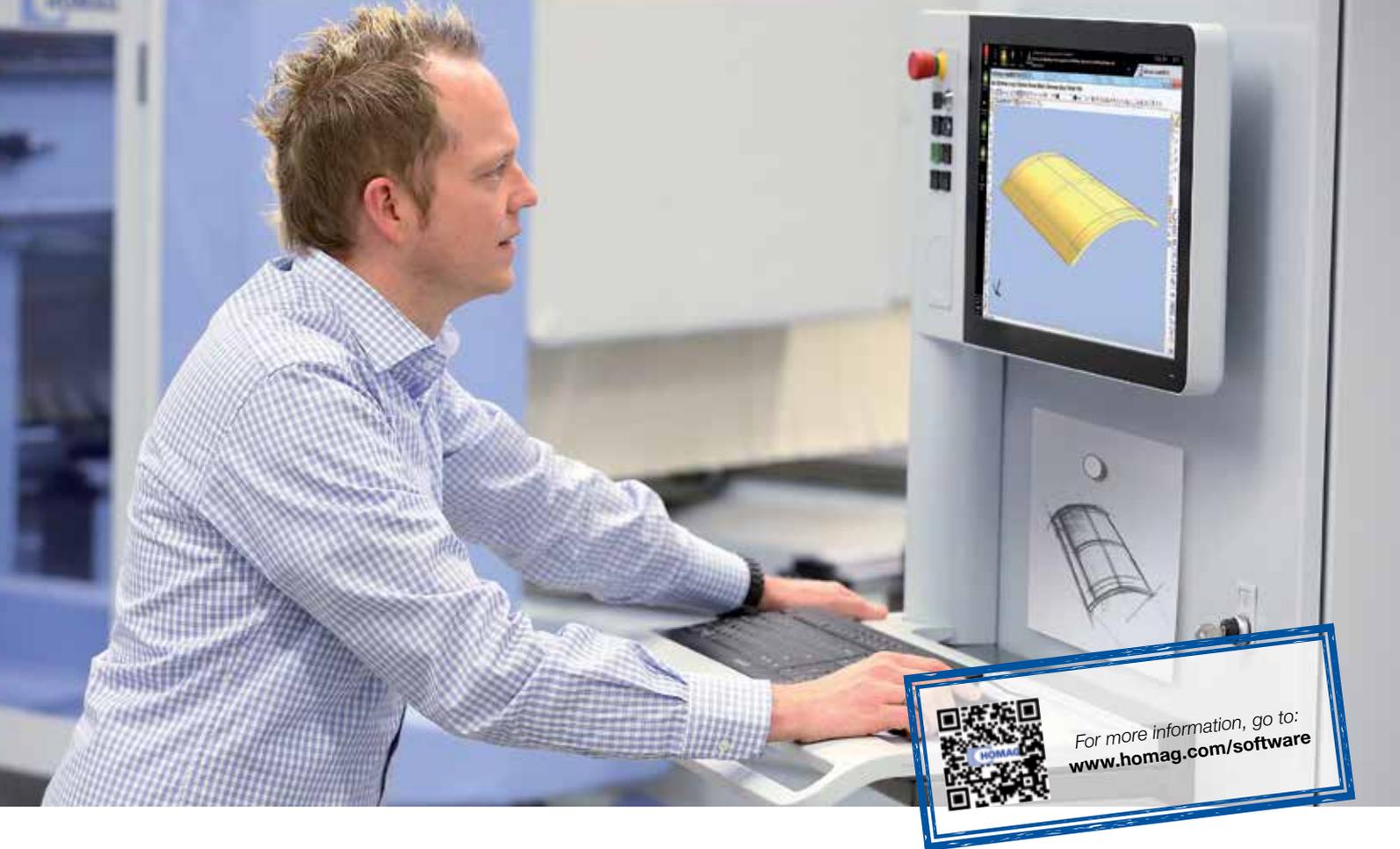
woodworking shop, where his passion can chew through oak, maple, and any finger that strays.

Woodworking started for Clay in school, but many years later he rediscovered his passion for the trade. In just the last three years, he has furnished his home and created intricate, wooden artwork, in his shop which is fitted with a dust collection and heating-cooling system. Clay Gurganus can’t see his own handiwork, but he doesn’t need to in order to feel how much it has changed his life.

Clay graduated from Iowa State University with a degree in Business/Marketing and a degree in Speech Communication. He began his career in the financial aid department at the university. After 18 years of full-time employment, the opportunity came for him to purchase a table saw. He is also the vice-president of Ames Woodworking Club.

(www.blindguywoodworking.com).

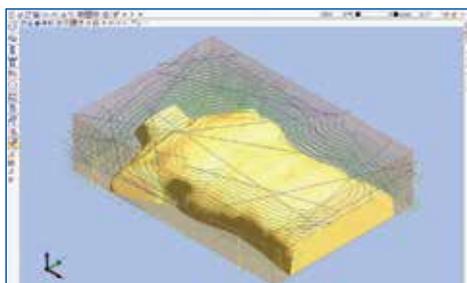





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EUTR goes in for review



Courtesy: Greenpeace

Any reforms to law on timber legality will be enforced from 2016

Independent forest monitoring, in this case by Greenpeace, has unearthed cases of violation of the EUTR in the Congo.

The European Commission is undertaking a major review of the EU Timber Regulation (EUTR) and Forest Law Enforcement Governance and Trade Action Plan (FLEGT AP) during 2015. According to Mr Bernard Crabbé of the EC Directorate General for Development and Cooperation (DEVCO), the review will be as wide-ranging and consultative as possible. “The Commission wants a balanced mix of stakeholders consulted, including governments, private sector and civil society,” Mr. Crabbé was quoted as saying by the latest newsletter of the European Timber Trade Federation (ETTF).

Consultants appointed for the EUTR Statutory Review have now started collating implementation and enforcement data. Online stakeholder consultation will also take place early in 2015 and EU member states will additionally submit EUTR biennial reports in April. The Commission will subsequently submit its EUTR report to the EU Council and Parliament by December 3, 2015. Any reforms to EUTR required will follow in 2016. The ETTF itself is currently talking with other bodies, including the European Confederation of

Woodworking Industries (CEIBois) and Association Technique des Bois Tropicaux (ATIBT) to establish joint positions to put to review panels.

According to Mr Anand Punja, Head of Sustainability at the UK Timber Trade Federation (TTF), “It is quality of enforcement that is of interest as there’s a perception that it is higher in parts of Europe than others. This puts companies in certain countries at a competitive disadvantage.”

ETTF members also want the EUTR exemption for wooden seating to be removed so that it is covered in line with all other forms of wooden furniture. The ETTF newsletter suggests firm industry support for the EUTR, although not without criticism of some aspects of implementation.

Trade support

A prominent supporter of the EUTR, according to ETTF, is Vandecasteele Houtimport, a leading player in the European timber importing trade. The company’s Belgian site carries 1,20,000 cubic metres of stock, comprising 180 species, from European, American, Brazilian, Asian and African hardwoods, to softwoods and clears. From here, Vandecasteele distributes wood throughout Europe.

“EUTR is important, not just for protecting the forest, but protecting our legitimate EU timber trade too,” said Vandecasteele Export Manager, Ms. Geneviève Standaert, in an interview with the ETTF.

“The forest and the timber from it are our business. We don’t want to see its future threatened by illegal logging, or the illegal trade undercutting our markets. We also don’t want illegal timber in our supply chains, for moral reasons and the reputational damage it does to businesses and timber,” she said.

Ms Standaert says working with others to meet the requirements of the EUTR has also strengthened its connections with its suppliers worldwide. From Vandecasteele’s perspective, the immediate effects of EUTR on procurement were quite limited.

Ms. Standaert suggests this is because much of the work was already carried out as part of the company’s long-term commitment to responsible procurement. More than 70% of timber procured by the company is FSC, PEFC, or third-party legally verified.

Vandecasteele has been conscious of the challenge EUTR presents for suppliers and the need to avoid demanding 100% instant compliance. "The EUTR requires a collaborative effort and dropping suppliers is counter-productive to tackling illegality and preserving the forest," said Ms Standaert. "Suppliers may sell to less demanding markets, or even convert forest to other commercial uses, and there are big powerful companies ready to plant soy and palm oil instead."

Some obstacles

In her interview with ETTF, Ms Standaert mentioned several obstacles to more efficient operation of EUTR that still need to be resolved. There needs to be greater pan-EU standardisation of due diligence documentation to assist suppliers and greater coordination on proof of legality with other illegal timber market regulations.

There's also a need for the European Commission to accelerate



appointment of EUTR monitoring organisations (MOs), the bodies authorised to create and manage due diligence systems for operators. There are now only four.

Vandecasteele also wants greater trade and government impetus behind the EU's Forest Law Enforcement Governance and Trade Voluntary Partnership Agreement (FLEGT-VPA) initiative.

Many of Ms Standaert's comments were echoed by other big players in the EU timber importing industry interviewed for the ETTF newsletter. Mr Paul-Emmanuel Huet, Social and Environmental Manager at Rougier France said: "We welcomed the EUTR as a measure to effectively fight against unfair illegal competition and

combat imports of illegal timber in Europe. We had our own internal due diligence system prior to the EUTR, but had to make some updates in terms of procedure to show we had all the necessary controls in place."

Mr Tom Van Loon, Group Environmental Manager at Danzer-Germany, commented, "We already had ISO 1400-certified procurement to verify legality and environmental impact from Africa, but since EUTR

ITTO steps in to help

A key project to facilitate more cost-effective implementation of the EUTR, now being developed by ETTF with ITTO support, is to establish an on-line platform to constantly update EU importers on supplier country laws which timber must comply with to meet due diligence requirements.

The first US\$100,000 of the required US\$150,000 was pledged by Netherlands and Japanese donors at the International Tropical Timber Council meeting in Yokohama (Japan) in November 2014, following a presentation on the project by ETTF Secretary General, Mr André de Boer.

According to the ETTF newsletter, Mr de Boer is confident of securing the rest of the funding early in 2015, including a contribution from the Sustainable Tropical Timber Coalition which is now actively promoting tropical wood in the European market. Under the EUTR, timber must be legal under the laws of the country of origin. But currently companies are on their own when it comes to researching this legislation.

According to Mr de Boer, the project "would effectively establish a one-stop shop for EUTR applicable producer country legislation and documentation". He added, "Ultimately if all companies, and EUTR Competent Authorities (CAs), referred to the same current information it would also ensure more uniform implementation of the Regulation and enhance its effectiveness against illegal timber."

we expanded these procurement procedures to all sources, and added a new level of systematically auditing non-certified, high-risk area suppliers.

"The EUTR is creating a level playing field, but we need more focus on third-party verification and certification systems, and less on documentation, which may not be reliable in high risk countries."

German support

Chris Sutton, Managing Director James Latham, UK, observed that EUTR "helped formalize what our industry should already have been doing. We had to tighten some procedures, but already followed the UK Timber Trade Federation Responsible Purchasing Policy, and had a computer system that could deal with necessary supplier information.

"We had to play hardball with a few suppliers on paperwork, but worked with them, visiting them worldwide, and as a result only lost one or two. EUTR has been a benefit. We just hope all EU countries now enforce it as effectively as the most rigorous do already."

Further evidence that overseas suppliers and European timber importers seem to be responding well to the EUTR comes from the latest enforcement data of the German EUTR Competent Authority, one of the most active to date.

According to an article in the Germany based timber trade journal, EUWID, drawing on comments by Mr Thorsten Hinrichs, senior government official at the Federal Ministry for Food and Agriculture, between January and December 2014 it investigated 140 companies affected by the EUTR to check on how effectively it was being implemented.

Only three cases of serious violations based on clearly insufficient compliance with due diligence requirements of EUTR were ascertained. Proceedings concerning these three cases are still under way.

The likely outcome is, however, that a penalty will be imposed which, under the terms of the German EUTR implementing act, can amount to as much as €50,000.



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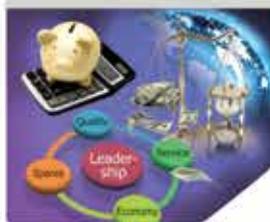


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Switzerland is best known for its cheese and chocolate, hospitality education and banking management and – no marks for guessing – its precision manufacturing of various types of machinery, including the renowned wrist-watches and writing instruments. The hallmark of all these is punctuality, quality and reliability. No wonder then, that **Mr. Peter Weber**, Director of Peka-Metall AG, convinces you when he talks of all these – and the role of innovation – in his company’s products.

Peka accessories for kitchens and furniture have been on the innovation highway ever since its inception as a family-run business in Mosen in 1964. As in all things Swiss, Peka is sworn to maintaining and nurturing traditions alongside technology.

High-quality sheet-metal products are Peka’s core expertise. Its passion lies in developing a range of products from complex movement mechanisms to design-driven (and award-winning) storage space solutions for kitchen and living-room furniture.

Peka has been synonymous for developing and manufacturing pull-out and slide-out systems and other complete solutions for kitchens and furniture for half a century. “Today we employ around 130 people, have a state-of-the-art, fully automated manufacturing plant, and sell our products in 60 countries,” says Weber, with a hint of pride.

“Our modern infrastructure comprises progressive presses with and without servo drive, CD and laser welding machines, the latest press brakes and an extremely efficient powder coating facility,” Weber stresses. A wide variety of material grades and dimensions are shaped and assembled using highly efficient equipment. All process steps interact under one roof – from strip steel through to packaged product.

What’s unique?

Numerous internationally recognised patents and awards are proof of Peka’s continuous track record of innovation. Among the recent ones are the Red Dot Design Award (2012), the Intelligent Material and Design Award at Interzum (2013), the IF Product Design Award (2014) and the Interior Innovation Award the same year.

But what sets its experience apart is the fact that almost all its products are developed in close cooperation with customers. Having been in the business of offering solution across five continents and many more varied cultures, Mr. Weber notes how Peka

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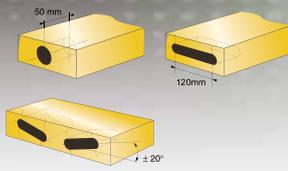


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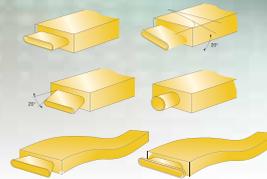
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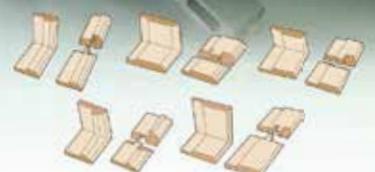
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relies heavily on feedback and inputs of its clients. And that is where its inspiration and innovation comes from! "We have experience with demanding clients in 60 countries. Our sheet-metal and its finish is special. But our designs and concepts are very special, because they not only satisfy our clients, but also win us new ones," Weber explains. What really is Peka's unique selling proposition, WoodNews asked Weber in the course of an interaction during DelhiWood earlier this year. According to Weber it boils down to systems that are simple to install, maintain and clean. That saves the installer and user a lot of time and labour costs.

Then there are innovations like the clip-on system, three-side accessibility to the contents of storage spaces, rounded corners and smooth edges of all shelves, along with the convenience of anti-skid mats, magnetic boards and separators. Materials such as magnets and Velcro strips only add to the functional value of each Peka product, says Weber.

In India Peka currently sells its Convoy Lavido (food storage), Libell (clip-on shelves) and Lina (trouser rack) systems, all equipped with its patented Click-Fixx system, soft opening/closing functions. WoodNews took a close look at them.

Prize winner

The Convoy Lavido larder pull-out is a sure prize-winner: it is a user-friendly solution for wide larder units offering optimum accessibility from three sides, from the top shelf to the bottom.

Its handle-free design incorporates electronic door opener that can resist an impact force of 120 kg, and servo drives for soft-touch opening and closing. It is suited to a wide range of storage applications – crockery, food and drink to clothes, DVDs and books – all with optimal use of space.

The Convoy's shelves have infinitely variable height adjustment, so your client can easily adapt the height according to the items s/he wishes to store in them, without altering the position of the hinges. That allows the Convoy Lavido to be used in standard units with concealed hinges.



While the Convoy Lavido (right) offers three-side accessibility, Peka's ClickFixx system (above) adds to its flexibility.

Its fully synchronised rail system, which is covered to protect it from dirt, guarantees consistent smoothness and enables Convoy to glide out of the unit silently.

A storage unit does not have to have a special structure for Convoy to be fitted, thanks to the design of the system's upper guide rail. The system is attached to the tops of the unit's side walls, and so can be used in units of any height.

The fastening bracket can be used with walls of various thicknesses and can be adapted for narrow units. The upper guide rail is attached directly to the top shelf.

Another standout feature of the Convoy range is the ease of assembly. There is no need for tools to clip the column into the back of the rail system. The shelves can be adjusted to any height without altering the position of the hinges.

This storage solution is for units with swing doors or sliding doors. Because the pull-out is not attached to the unit front it can be used in the kitchen, the living room and the dressing room.

Hang up troubles

The stable Libell steel-sheet shelves can be mounted on either the right or left wall of the wardrobe and can take up to 120 kg weight. The elegant Lina line allows up to 15 hangers to be hung



up or taken out individually and moved easily from side to side. Each shelf also provides an additional storage space for belts, jewellery and other small items.

Trousers are stored by taking a hanger out and simply folding the trousers over it outside the wardrobe, without creasing them. The hangers can be used individually, hung up or taken out and moved freely from side to side.

What is more, tiny "fins" of silicone line the inside of the hangers, preventing fabric from slipping off the metal! The hangers can be hung on any conventional clothes rail or hook for airing or display.

The hanger can be back-mounted to the shelf, allowing you to hang trousers easily while keeping both hands free

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The Extendo (top) is a discrete pull-out system that is so versatile, it can be used from shoe racks to dressing rooms and kitchens. Peka adds anti-slip mats and magnetic dividers (above) to make storage a pleasure.

– and without having to rummage around among the other trousers on the shelf!

The Extendo is a discreet system of pull-out shelves that looks right at home in kitchens, dressing rooms, wardrobes and living rooms. It combines direct access through the front of the shelf with an excellent overview of contents when extended, making it truly unique.

The shelves' closed base and rim prevent objects from falling out or

jamming, and the shelves' rounded corners make them easy to clean. The material's rigidity makes it especially suitable for use in widths of 600 mm to 1,200 mm.

The shoe storage system has options to have shelves attached at three different angles to accommodate footwear in any wardrobe or shoe rack. A practical shoe rest can also be attached with an enclosed plastic base to retain dirt or water in the tray.

The shoe rack can be adjusted to 16 mm or 19 mm panel thickness and can be clipped onto the full-extension runners. What is more these trays are quick to remove and easy to clean.

The shoe rack itself can either be mounted on a wall or clipped onto the tubular frame of slim units. The width of the system can be adjusted by using adapters to vary the angle of the rack.

An additional benefit thrown in by Peka: the Extendo's smart adapter system can be fitted to extension runners produced by different manufacturers, and can even be used with side walls of various thicknesses.

Corner specialist

As usual corner units, especially in

kitchens, are a tricky affair. Peka has tackled this with its "magic corner" system that incorporates an easy-install, easy-operate sliding swing unit. The front and shelves are attached to one side of the storage area, and the recessed shelves automatically slide out of the corner to the front, with no chance of a collision with the adjacent handle.

The adjusting wheels can be used to fine-tune the horizontal and vertical position, as well as the angle of the unit front, all without the use of tools!

Peka also equips its storage systems with discreetly-coloured non-slip mats with magnetic coating, to stick to the bottom of the shelves, but which can be removed for cleaning. The standard version has a raised diamond pattern with non-stick glue on both sides for traction. The magnetic mats are also gummed on both sides. Where required -- and in very thoughtfully crafted places -- Velcro holds moving parts in place for users' convenience!

As a natural corollary, Peka has also devised magnetic dividers as an aid to organising systems. These are flexible and stick to the anti-slip mat or to the shelves themselves.

Peka products are retailed in India by Mumbai-based Ebco (www.ebco.com)



Peka's solution to tricky kitchen corners is a sliding system.

Fevicol Adhesive Solutions for Woodworking Applications



Fevicol Hotmelt Products

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

Hotmelt 380 (unfilled) and Hotmelt 388 (filled) are Ethylene Vinyl Acetate (EVA) based thermoplastic adhesives recommended for through feed edge banders. They can be used with PVC, PP, ABS, veneer, polyester or melamine resin edge bands.

Hotmelt 382 is specially designed for manual edge banding machines. It can be used to apply PVC, HPL, ABS or solid wood lipping onto MDF or particle board.



Fevicol SWR Range

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

Fevicol PVC Fix

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



Fevicol SH

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



Fevicol SP Range

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

Membrane Press Range

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



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

Fevicol Heatx

Fevicol Heatx is a synthetic solvent-borne rubber-based adhesive made with a special formula with excellent heat resistance of up to 170 degrees Celsius. It also possesses quick grab property and strong bonding efficiency. It comes in 1 litre and 5 litre packing.



It is used in bonding challenging substrates like PVC foam sheet, WPVC, UPVC sheet to Mica, PVC film and veneer.

However, some precautionary measures have been recommended by the manufacturer:

- Bonding surface has to be sanded using No. 80 ambar paper or any handy sanding machine
- After cleaning the surface, Fevicol Heatx should be spread in one direction only
- Wait for 7 minutes to remove solvent for the adhesive system
- After joining both substrates, apply pressure using hammer strokes on wooden patti for strong contact
- Remove excess mica or PVC film using knife or trimmer after 5 minutes
- Initial bonding takes 3 hours; final bonding strength comes after 24 hours
- The same process can be used in roller press machines for faster production

US hardwood furniture hogs limelight



'Joy', made in ash by DWP-Middle East, was another hit.

Eight designers create unique pieces using American tulipwood, red oak, ash and walnut for the sustainable design initiative

Furniture designed using American hardwoods and veneers formed the centerpiece for the recently held 'Design, Dine, Donate' charity gala in Dubai. The project was a collaboration between the American Hardwood Export Council (AHEC), the leading international trade association for the American hardwood industry and Seekers Furnishing, a bespoke joinery practice in Dubai.



The 'Distrack' armchair in tulipwood, designed by Dozign Lab.

The eight chairs and seats produced in American tulipwood, red oak, ash and black walnut and incorporating sustainable fabrics from Warwick Australia, were auctioned during the night with the proceeds benefiting SURGE, a global non-profit organization that brings life-sustaining water to those most in need, while increasing awareness of the global crisis.

Given that the brief was very open, the challenge for the designers and Seekers was to produce a functional seating installation using sustainable American hardwoods and fabrics. The final designs included the 'Pauline' rocking chair in walnut by Aedas Interiors; 'Distrack' armchair in tulipwood by Dozign Lab; 'Tread' in walnut by Al Tayer Stocks; 'Quirkis' in red oak by Tony Archibold; 'S' in walnut by ISG Middle East; 'Joy' in ash by DWP; 'Linx' bench in ash and walnut by Artillery; and 'Niyah' in ash by Perkins & Will.

"It is one thing to design something that will physically survive the wear and tear of a long life; it is quite another to design a chair or seat that has the aesthetic qualities that will remain relevant long into the future," said Ms Marita Peters, Business

Development Manager, Seekers Furnishing.

Prior to 'Design, Dine, Donate', the chairs were on display as part of the Quoz Arts Festival from November 8-14, 2014. Seekers Furnishing manufactured seven of the chairs whilst 'Quirkis' was built by Khansaheb Joinery. All of the American hardwood lumber for the project was supplied by Chabros International Group and all of the veneers were supplied by Fritz Kohl.

"This unique exercise has not only thrown the spotlight on the beauty of American hardwoods but it has also helped in increasing the understanding of wood as a material for the designers involved with this project," said Roderick Wiles, AHEC Director for Africa, Middle East, South Asia and Oceania.

AHEC runs a worldwide programme to promote American hardwoods in over 50 export markets, concentrating on providing architects, specifiers, designers and end-users with technical information on the range of species, products and sources of supply. In addition, AHEC also produces a full range of technical publications.

www.americanhardwood.org.

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Xylexpo earns govt. pat ahead of 25th edition



The Italian Ministry of Economic Development has recently published a list of strategic trade fairs for the country's economy. These events will be entitled to receive funds from the 'Made in Italy' financing plan included in the state budget law (now Stability Act in Italy).

The biennial exhibition of woodworking technology and furniture industry supplies – celebrating its 25th anniversary from 24 to 28 of May 2016, in the Fieramilano-Rho expo center – has been recognized as an "industrial policy vehicle" that benefits the industry.

As such, it has been included in the short list of "top-32 exhibitions" considered as events of primary importance, not only for their role to the benefit of made-in-Italy and Italian enterprise globalization, but also because they are excellent showcases on a global scale, places where exhibitors and visitors from all over the world meet and interact, generating

value for the global supply chain.

"We have been working hard for this recognition, which acknowledges the supremacy of Xylexpo among Italian industry events," said Mr. Dario Corbetta, exhibition director, with great satisfaction.



"We have experienced very difficult years, not only for the economic situation. We believe that this decision by the Italian government sets a new starting point, around which we should gather the collaboration and support of all stakeholders, so that the world of wood technology can achieve greater and greater results," he was quoted as saying.

The government's measure allots funds in excess of 40 million Euros, spanning the 2015-2017 period. With these funds, organizers shall deploy events and promotion initiatives to increase Italian export and to strengthen the role of the selected exhibitions as reference for global demand and supply.

"This is also a sign of support from public institutions to wood technology," Mr. Corbetta noted. "Their attention, through this new measure, shows their determination to clear up the exhibition scenario, often affected by rivalry and overlapping events, and their strong commitment."

The Italian woodworking machine manufacturing industry exports more than 80% of its 1.6 billion Euro production, representing as much as 5% of the active part of the Italian trade balance. "It's the excellence of made-in-Italy in which we should invest with confidence," Mr. Corbetta added.

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Taiwan to showcase its manufacturing prowess



The Taiwanese trade show for the global woodworking industry, Wood Taiwan, will be held in TWTC Nangang Exhibition Hall, Taipei, from 2-5 July 2015. The show is projected to attract around 5,000 visitors, of whom 15% would be foreigners. About 200 exhibitors will showcase their products in 1,000 booths on an exhibition space of 9,000 sq metre.

Wood Taiwan is a strong platform where most of Taiwan's exports (US\$ 498 million in 2013) are sourced and signed to place the country among the world's top four exporters. The exhibition offers a variety of machines, tools, and components, catering to all stages of manufacturing.

Main exhibits will include machines & equipment for primary processing (production of veneer & plywood,

sawmilling), secondary processing (sawing, planing, moulding, turning, edge banding, finger jointing, boring, tenoning, mortising, sanding and machining), surface finishing, special processes, special product groups, maintenance of tools and auxiliaries, extraction equipment and woodworking machinery components.

This debut of the expo will have a new flagship pavilion for industrial trends focusing on concerns like green manufacturing, automation, and raising labour costs – which are spurring a fresh wave of products. Some of the main attractions will be a fully automated solid wood flooring production line, full finger jointing material preparation line, panel furniture line, and solid wood joining & cutting line.

Taiwan boasts of more than 300 woodworking manufacturers. Woodworking is its third largest industrial sector with 97% of its output sold abroad. In terms of quality Taiwan is viewed among world's best, after Germany and Italy, mainly owing to its agile cluster syndicate system with an objective of meeting the global demand in quality.

Jointly organised by Taiwan External Trade Development Council (TAITRA) and Taiwan Woodworking Machinery Association (TWMA), Wood Taiwan allows free admission to pre-registered visitors. Parallel events will include, Best Design & Excellence Awards, Buyers' Night, procurement meetings, and conferences.

For more information, visit www.woodtaiwan.com

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Hand to auto-tool finishing: Tapetech tells how

For years, contractors and finishers have debated the best way to finish dry walls using either automatic taping and finishing tools or hand-finishing methods. Drywall finishing, by its very nature, is a craft.

Most finishers and contractors agree that a highly skilled drywall finisher has “the touch” – that special ability to work with tools, tape and compound to transform gypsum wall panels into a monolithic surface, free of any apparent defects and ready for final paint. The standards and requirements for the finished product do not change; the skill of the finisher behind the tool (hand or automatic) is what makes the difference.

That said, the application method used to achieve the end result makes a substantial impact with regard to timing, job scheduling, resource management, personnel, productivity, and, most of all, labour cost. A skilled finisher using hand methods produces incredible work.

Combine that skill set with automatic taping and finishing tools, however, and the same finisher will experience a dramatic increase in productivity, all the while maintaining the quality of the finish. Experience has shown that in areas where hand finishing has been predominant, the best hand finishers also become the best automatic taping and finishing tool users.

Doubling productivity

A skilled drywall finisher will blend and incorporate the speed and efficiency of automatic tools with the finesse of hand finishing for a highly productive and near-flawless drywall finishing system. The use of automatic tools allows the drywall professional



Flat finish boxes and corner finishers are designed to coat, feather and leave a uniform finish over flats and angles.

to double productivity over hand methods alone.

Any true professional using automatic tools can tape and finish by hand. However, they use automatic tools to speed the process and accelerate each part of the operation, allowing plenty of time to handle the fine detailed work. In essence, they use automatic tools to take the fight out of 95% of the taping and finishing process, which allows them to complete the project in less time or complete more work overall.

Automatic tools by design create a consistent, high-quality finish. Flat finish boxes and corner finishers are designed to coat, feather and leave a uniform finish over flats and angles. The Bazooka can simultaneously apply mud and tape to any flat or angle and cut the tape to the precise length.

The system as a whole is designed to improve the consistency and productivity of the tape, coat and finish coat processes.

But converting finishers from hand

methods to automatic tools can be challenging. The most common objection is resistance to change. A personal favourite is: “Automatic taping and finishing tools will put me out of work because they are too fast.”

The simple truth is, yes, using automatic taping and finishing tools will help you complete the job more quickly. However, when this happens, several positive things occur:

- The company makes more money
- It is more competitive in the marketplace
- The company can bid on and win more projects.

Getting the ‘touch’

So, instead of losing work, the company actually has more work – and that means more finishers for more jobs. Automatic taping and finishing tools won’t put you out of work. Instead, automatic tools will help you stay productive and on-the-job.

Converting to automatic tools requires patience and persistence. The





transformation requires some changes in a process that has been perfected by hand. Experienced hand finishers must develop the “touch” with a new set of tools.



The Bazooka can simultaneously apply mud and tape to any flat or angle and cut the tape to the precise length.

As they complete their training and work through the learning curve, they must make the tools work for them. You can always tell when finishers reach that point by the sound of tools running. Automatic taping and finishing tools make a unique and distinctive sound when they are operated correctly!

When we speak of “converting” to automatic taping and finishing tools from hand finishing, it’s really about adding to a finisher’s skill set. As in any trade, the most highly skilled workers tend to be the busiest and most productive.

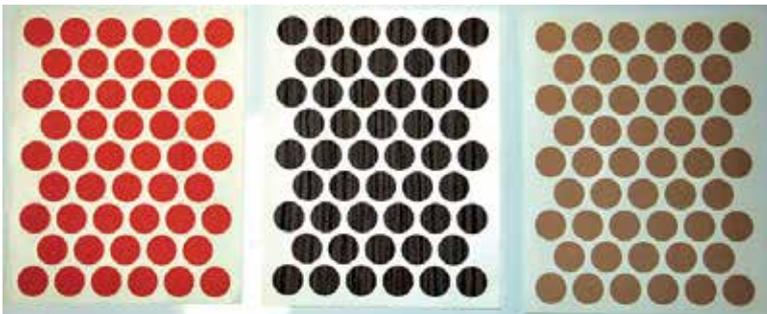
In almost all parts of the country, a talented Bazooka operator or automatic tool user develops a

reputation and stays in-demand, just like the contractor who manages a job and brings it in under budget.

In tough competitive times, companies look for ways to cut costs. As a contractor your greatest cost is labour. Companies that have made the conversion to automatic tools have reported savings of 3-5 man days per week/per crew. Others have reported production increases of 50% or more.

Most companies that have used automatic taping and finishing tools over a period of years report crew production twice that of finishing by hand. What if each of your crew could finish just 30% more drywall per week using automatic tools versus hand finishing?!

Tece Decor offers matching screw covers



In its efforts to supply a complete range of products related to edge banding, Turkey’s Tece Decor also offers screw covers with the same colour of its edge bandings.

Screw covers are the specially produced material that carpenters can stick on top of visible screw holes or screw heads. As it is not possible to make screw covers from the board or laminate itself, it has to be made from plastic or melamine sheets. Tece manufactures both products.

With the right colour of screw covers, furniture has a perfect visual appeal and consistency. Holes, screws heads,

and any kind of damaged small points can be effectively covered with these covers.

Along with the PVC or melamine substrate Tece makes the exact colour of its edge bandings; the finished product has the exact colour, design, and texture of the edge banding.

The circle covers are available in 14-mm and 18-mm sizes and are priced to overcome market competition.

Application

The surface to be applied must be clean; free of dust, dirt, oil, or any other material that can prevent a

proper adhesive of screw cover to the board. It is advisable to clean the surface of board with a slightly damp cloth before sticking the cover.

After peeling off the screw cover from the white substrate, make sure that there is minimal contact between finger and the adhesive. The ideal temperature for application is room temperate (between 18° C and 25° C).

To apply the screw cover: the cover should be put over the screw hole and pressure applied on it. The result should be checked after 24 hours after application.



SCM launches Accord FX for doors, windows



The new Accord FX range was developed to meet expectations for processing centres by small and medium enterprises.

More than 300 door and window manufacturers from Italy, Europe, Malaysia, the US, Japan and Africa gathered in Rimini (Italy) between 5 and 7 February to experience first-hand the technological innovation content and performance of SCM's Xilog Maestro software.

Its 'Doors and Windows Technology Days' turned out to be a training and idea exchange opportunity for the many door and window manufacturers, from small artisans who wanted to familiarise themselves with numeric control technology to large businesses that were interested in larger production volumes, new finishes and higher overall process quality.

The main focus of the event were the processing centres, the Accord 30FX and Accord 40FX-M models and the Accord WD cell. SCM also previewed the brand-new Accord 25FX model, a 5-axis processing centre with enhanced performance in terms of maximum processable height and operator safety. It is an extremely versatile machine for the manufacturing of doors and windows, staircases and solid wood kitchens. The new Accord FX range was

developed on the basis of the growing appetite for processing centres shown by artisans and small-medium enterprises. This is a model designed to deliver maximum performance with the lowest possible investment: a powerful, versatile processing centre with an extremely accelerated learning curve, thanks to software programs that are increasingly easier to use and programme.



The new-generation software programs enable even small and medium enterprises to leverage the capabilities of 5-axis processing centres.

The Accord 25FX boasts a high work piece passage, a reduced footprint, greater ease of loading and uploading, high tool magazine capacity, maximum

tool and working unit accessibility, coupled with utmost reliability.

The new-generation software programs enable even small and medium enterprises to work with extreme ease of programming, leveraging the capabilities of 5-axis processing centres in an ideal way.

All this has been made possible by the Xilog Maestro processing centre software and its specific modules: the Maestro WD parametric application software to design and manufacture doors and windows; the new Maestro 3D developed to design and process three-dimensional surfaces; the Proview simulator for real-time visualisation of work piece and machine parts; and MSL, the interface that enables the dialogue with external management software, importing data directly into Xilog Maestro.

Displaying its smoothing and finishing solutions, the SCM Group showcased the new Sandya 900 roller conveyor with super-finish unit, which can deliver the best smoothing performance for doors and windows and the DMC System, a veritable finishing centre with multi-functional planetary unit.



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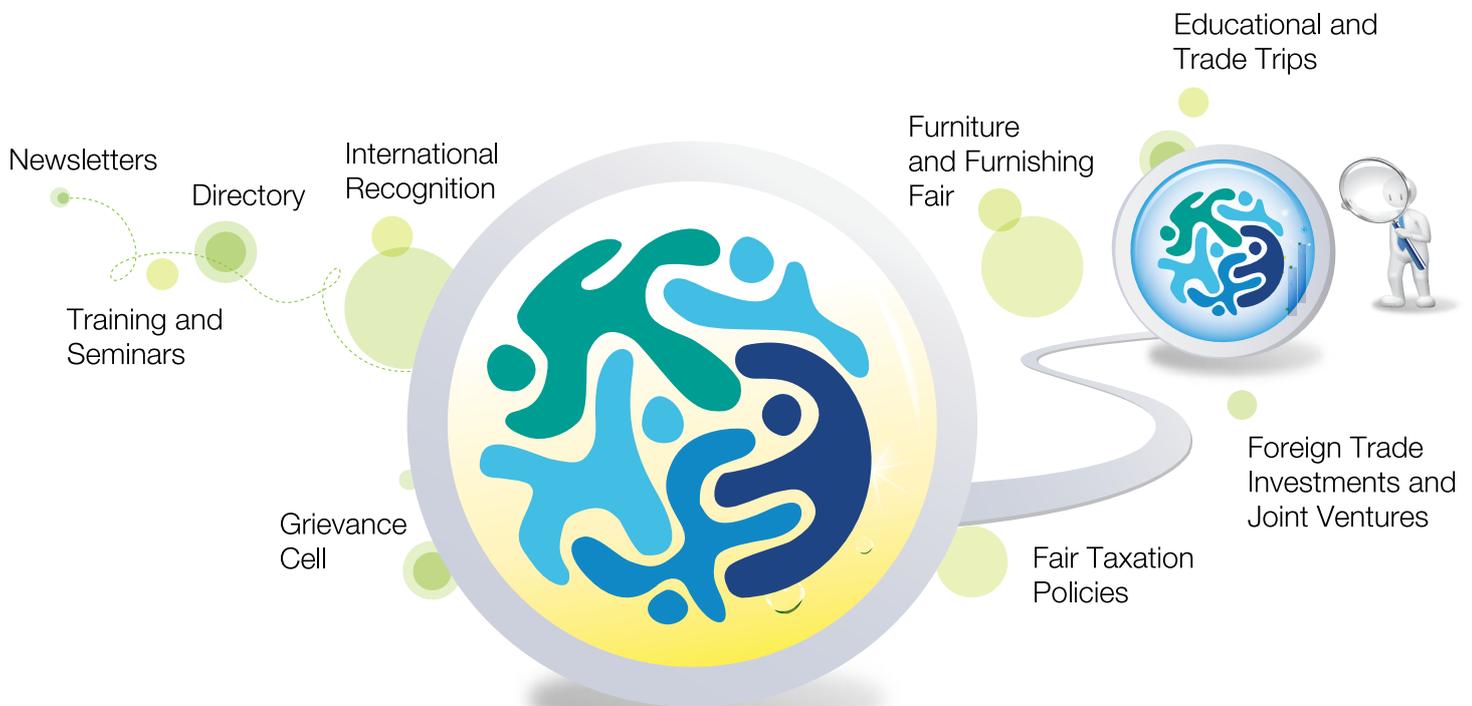


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WOODNEWS



Superior waterborne coating solutions from JAT Holdings



All Hydroplus series products for exterior use meet the requirements of the EN 14351-1 regulation governing CE marking.

Italy-based Sayerlack, a leading wood solutions company, was the first to introduce water-based lacquer to the global wood coating industry in 1998, and has since become one of the world's largest producers of wood coating. Sayerlack is part of the Sherwin-Williams Group.

Sayerlack has introduced in India its Hydroplus waterborne coatings to offer protection from solar radiation. Hydroplus reduces solvent emissions by up to 95%, compared to synthetic products.

Its application considerably increases the life of coated wood joinery in the outdoors. Unlike solvent products, waterborne products maintain their elasticity over time, which allows the coating's film to follow the wood's movement without cracking or flaking.

Waterborne coatings are not flammable, can be thinned with tap water, allow fast coating systems without spontaneous combustion and lifting. All Hydroplus series products for exterior use meet the requirements of the EN 14351-1 regulation governing CE marking.

Hydroplus topcoats are thixotropic, allowing a thick coat of product to be applied without sagging or running, maintaining excellent flow and transparency. The applied film maintains a high level of elasticity over time, without being prone to "blocking".

In order to ensure a good resistance in outdoor exposure, the clear Hydroplus products are formulated with an optimal dose of UV absorbers, reducing any changes in colour and protecting the wood from deterioration.

Hydroplus pigmented coatings contain high opacity and light-resistant pigments. This type of coating is ideal for high quality, long lasting joinery products.

'Green' solution

An environment-friendly attitude is increasingly spreading, aiming at safeguarding the operators' and the end-users' health. For this reason, furniture is more and more being coated with products with the least emission of solvents, both during the painting stage and in the final slow stage of the drying, which usually occurs at home and liberates unpleasant odors.

As furniture manufacturers use chipboard bases and MDF with low formaldehyde contents, painters will have to use products with minimum contents of harmful substances, so as to protect the environment.

The appearance is critical in the coating of furniture and its accessories. Hydroplus waterborne products result in finishes that cannot be differentiated from those obtained with solvent-based products, ensuring a mechanical and chemical

resistance level comparable to that of polyurethane two-pack topcoats.

Some of Sayerlack's water-based coating systems for exteriors have obtained the prestigious certifications Catas Quality Award Plus and Catas-Wki Premium Plus that certify the quality of the coating system for its outdoor life, wood protection and production quality control.

Sayerlack Hydro Gold provides an 18-year lifespan on windows and 10-year lifespan on external shutters.

Application

To assess the minimum coating thickness that must be applied and so the most appropriate system for wooden outdoor products, one must consider two factors: the risk of exposure class and wood type. One can assume that windows protected externally by shades, blinds and rolling doors only need a two-coat system. Windows that are not protected externally, as well as the blinds and shades, need a three-coat system.

Before application of Hydroplus, it must be ensured that the wood is healthy and without pith; there must be no traces of fungal or insect attack; there must be no transverse cracking of the grain; the relative humidity should range between 13% and 15%. It must be borne in mind that there is a danger of resin outflow in pine, larch and Douglas fir.





WOODNEWS

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

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The natural look system has been QUV-A tested (EN 927/06-e regulation). This accelerated weathering test simulates outdoor weathering of a coated item and sets the benchmark for assessing the duration of a coating system. To pass the exterior duration test, the



Sayerlack researchers have tested the natural look coating system for over 4,000 hours and obtained excellent results.

regulation requires exceeding 2016 hours of QUV.

Sayerlack researchers have tested the natural look coating system for over 4,000 hours and obtained excellent results: at the end of the test, the coating's film was still perfect.

Offering Catas recognized waterborne technologies and easy-to-use polyurethane technologies, Sayerlack provides finishers with a unique range of options. Technologies available from Sayerlack include waterborne transparent and pigmented basecoats, polyurethane finishing systems, NC and one-component finishes, UV-curable systems, lacquer finishing systems, adhesion-promoting primers, stains, and waxes.

Endorsing a culture of innovation and continuous improvement for over 20 years Sri Lanka-based JAT Holdings has

promoted global brands of superior quality such as BormaWachs, Crown, Permoglaze and many other iconic brands. Sayerlack is represented in India by JAT Holdings' Nashad Nash (nashad@jatholdings.com).



Hydroplus topcoats allow application without sagging or running, maintaining excellent flow and transparency and high level of elasticity over time.

Get a grip on your work pieces



The Gorilla Gripper is a unique, exciting, effective gripping and lifting hand tool for a variety of large, heavy and unwieldy building materials, such as panels of plywood, particle board, wallboard, cement board, melamine,

MDF, counter-tops, floor mats, and more!

Most of these materials typically stand 4x8 feet or more in length. They're obviously cumbersome to carry and usually heavy as well; but need to be individually moved, perhaps hand-loaded onto trucks and ultimately hand-carried to their final destination within the building structure or onto its roof.

Since these panels lack handle holds or apertures for grasping, workers typically have to grasp the top edge of each panel between the fingers and palms of their hands and lift the panel a few inches off the ground while walking to carry the sheet of material to the place where it may have to be trimmed to a required dimension. And then re-carried to the place where it will be installed.

Not only is this awkward to do by hand, but it physically challenges, stresses and fatigues the fingers,

hands, arms, back, chest and neck.

This also presents a risk to the materials themselves, because they can slip from the workers' grasp and fall to the ground, resulting in damage to the panels, or to their toes.

The Gorilla Gripper solves all of these problems at once, increasing the overall ease and safety of gripping, carrying and moving these panels to and around the job site. Here is how the Gorilla Gripper works:

It simply and easily slips over the center of the top edge of panel. When a person lifts its handle, the two gripping plates pivot into a parallel position to the panel surfaces, moving together to compress against the panel, gripping it tightly. The unique design of the Gorilla Gripper automatically increases its grip the more the panel material weighs.

Govt. to push ZED model for MSMEs

The Union Government is set to launch its 'Zero Effect, Zero Defect' model to rate and handhold a million micro, small and medium enterprises (MSMEs) over the next five years, to deliver top quality products using clean technology.

The move is in line with the Prime Minister's pitch for high quality local manufacturing and 'Make in India' campaign. Deriving its name from Mr. Narendra Modi's speech, the 'ZED maturity model' is being jointly worked out by the Ministry of Micro, Small and Medium Enterprises; the Department of Industrial Policy and Promotion (DIPP) and the Quality Council of India (QCI), and is expected to be finalised by March-end.

The aim is to help SMEs evolve and grow by providing them with adequate training and funding to move up the value chain and produce quality products. "We will sensitise MSMEs to give importance to packaging and branding, and at

the same time train them to deliver quality products with zero defect, hence zero rejection," said a DIPP official.

"The idea is that Indian products must be perceived as top quality products by the world, which will help move up the value chain and draw buyers from the West," he was quoted as saying by the Economic Times newspaper. Medium and SMEs contribute nearly 8% to the country's gross domestic product, 45% to manufacturing output and 40% to exports.

"It is important that SMEs improve processes and systems in such a way that quality is assured and there is no rejection," said a QCI official. Enterprises will be taken through a process from the present status to the ZED standard, which will mean that a particular company is at par with any international product unit.

The process will involve manual skilling, technology upgrade and

automation, among others. Companies will be assigned star ratings on a scale of 1 to 5 based on their levels of competence, technology and quality on 61 parameters. The parameters include infrastructure, quality of machines, waste disposal system, provisions to deal with pollution and optimising energy resources.

Along with that, there will be categories for each parameter ranging from bronze to silver, gold and diamond. A lone bronze star will be the lowest rating, and a diamond five star the highest. There will be sector-specific parameters for each industry, such as food processing, textiles, leather and auto parts for assessment.

According to the Economic Times, India has close to 35 million MSMEs with 95% employing less than 10 people. The rest 5% employ 10 to 100 people. Under the proposed programme, unemployed youth will be trained to become quality professionals.

SCM to headline 'efficiency, innovation' at Ligna

The SCM Group is preparing for Ligna (in Hanover, 11-15 May 2015) with a range of solutions for greater efficiency and reliability. The main stand, covering over 1,800 square metres, will showcase innovations for all types of machining processes for the woodworking industry and panel sectors.

Ligna will see the preview of 'Oikos', the powerful Routh processing centre with 6-axis working unit, capable of managing the most diverse processes both on beams and X-LAM/CLT wall elements with maximum size of up to 1,250 mm width, 300 mm thickness and 19 m height.

The spotlight will also be on the

'Xilog Maestro' CAD/CAM software for processing centres, along with Maestro 3D, Maestro Edge, Maestro Nesting, Maestro WD and MSL.

Morbidelli processing centres will showcase the impeccable boring-edge banding quality and high productivity, also for small-medium batches: over 20 pieces per minute, with set-up times of less than 45 seconds.

The novelties for Stefani will focus on superb finish quality for industrial edge banding: for the first time, hot air edge banding will be presented as a solution.

For Gabbiani and Mahros, the focus will be on fully integrated solutions that combine cutting, Morbidelli

nesting machining operations and an intelligent magazine to enable excellent performance, with automation playing a key role in ensuring flexibility and high output for the management of very different orders.

In the door and window segment, SCM has expanded its processing centre range with a new model with enhanced performance as far as maximum processing height and operator safety is concerned. It will also provide a flexible solution for door and window manufacturers, capable of combining high productivity with the possibility of creating increasingly customised projects.

Another hall will showcase solutions for small joineries, with the entire Minimax range revamped, through to the prestigious range of L'Invincibile professional machines, which will include an innovative cutting solution.



Greda to launch CNC centre for furniture legs

Greda will launch at the upcoming Ligna its brand new 'Venus', a multi-axis working centre for chair, table and furniture legs, processing four pieces simultaneously. Venus is a high-productivity machine that, in a few minutes, can deliver four finished parts, up to 1,200-mm long, ready to be assembled and painted.

Greda is an Italy-based world-renowned brand for 30 years with thousands of CNC machines installed globally. It prides itself on its capacity to create specific machines for customer needs.

Greda's specialties are solid wood solutions, routing and turning equipment for chair and table

legs; but also machines for panels, furniture, musical instruments, wood construction.

"When you master a technology, you can apply it to different areas, always achieving results that effectively respond to user requirements," says its Co-Director, Ms Marianna Daschini. www.greda.it

Henkel opens Flexible Packaging Academy in Mumbai

Henkel Adhesive Technologies, a leading solution provider for adhesives, sealants and functional coatings, inaugurated the Henkel Flexible Packaging Academy in Mumbai, on 18 February.

It is Henkel's third academy globally, and will be the first of its kind in India, West Asia and Africa, offering certified training programmes for flexible packaging industry professionals -- especially in the fast moving consumer goods, pharmaceuticals and food and beverages sectors -- in association with Indian Institute of Packaging (IIP).

It will provide formal training on lamination technology to entrepreneurs, production managers, supervisors, operators, quality control professionals of the flexible packaging industry. The training combines

theoretical knowledge and hands-on practical training. Methods of producing food-safe laminates and troubleshooting will be the key highlights of the training.

With proven success models in Europe and China, Henkel Adhesive Technologies has earned industry-wide reputation for taking the lead in changing the dynamics of the industry with emphasis on quality and wastage control and skills upgradation.

The Academy will be steered by a team of experts sourced from across the world including in-house technical team of Henkel each of whom have more than twenty years of experience



in the industry. As knowledge partners, IIP will also be involved in imparting the training.

The dynamic Indian flexible packaging industry is pegged at reaching US\$ 3.8 billion, according to the latest report of the Associated Chambers of Business and Commerce in India. Henkel Flexible Packaging Academy will prove to be a significant foundation propelling the industry towards development, sustainability and innovation.





'Dr Fixit' takes to educating people

Dr. Fixit, the waterproofing expert from the house of Pidilite Industries, announced the launch of 'Waterproof World' in Mumbai in the beginning of March. Dr. Fixit is one of the most trusted brands in the Indian construction industry, known for its innovation and pioneering solutions for waterproofing problems.

Dr. Fixit is also committed to break common myths and demystify the problems associated with conventional waterproofing practices amongst common people. 'Waterproof World', a first-of-its-kind retail concept, aims at educating customer through touch and feel.

It will offer an experience zone wherein a customer can get information regarding importance of waterproofing, concept of waterproof envelope, easy steps to waterproof and areas of application such as external and internal walls, terraces and bathrooms.

This will also provide a platform to engineers, structural consultants and architects to showcase waterproofing solutions to their clients. 'Waterproof World' will be exhibited at seven key outlets in Mumbai and will be launched in other centres in the country.

Mr. Ashish Prasad, President (Sales & Marketing, Construction Chemicals),

Pidilite Industries said, "Water seepage/ leakage causes immense damage to a household. Dr. Fixit is a leader in waterproofing solutions and we feel it is our responsibility to create awareness about waterproofing and its importance."

Pidilite Industries has been a pioneer in consumer and specialties chemicals in India. Its product range includes adhesives and sealants, construction and paint chemicals, art material, industrial and textile resins and organic pigments. Fevicol is now the largest selling adhesives brand in Asia.

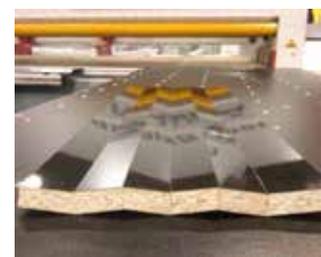
Schelling cut to size saw s 45: The all-round cut-to-size saw with mitre cut

Cutting boards to size and mitre cuts with one machine: is this really possible?

Yes it is; and that's not all:

Slashed process costs and is raised precision with the Schelling s 45.

Ideal for anyone who works in the demanding field of furniture and shop fitting



Schelling Anlagenbau GmbH is headquartered in Schwarzach, Austria. The company has 400 employees worldwide at a total of 10 locations.

The product line includes cut-to-size saws and systems, as well as automatic area storage and stacking systems for wood materials, and precision saws and systems for plastics, NF-metals, ferrous metals and PCB materials.



Schelling Anlagenbau GmbH
6858 Schwarzach/Austria, www.schelling.com

Your contact in India: Bhat Dayanand

Cell No. +91 9900 515 210, Email: dayanand.bhat@schelling.in

AHEC has big interest in Dubai WoodShow



 The Bahrain National Theatre, where extensive use has been made of various species of US hardwoods.

The American Hardwood Export Council (AHEC), the leading international trade association for the American hardwood industry, has confirmed its participation in the Dubai International Wood & Wood

Machinery Show, scheduled for 14-16 April, 2015. It is set to host the largest ever American hardwood pavilion, since it started to support the Dubai show at its inception in 2006.

According to AHEC, growing interest and demand for American hardwoods has bolstered US hardwood exporters to become increasingly active in the region's hardwood market. The event will see the participation of 21 US hardwood lumber and veneer exporters under the banner of the American Hardwood Pavilion, which will occupy 240 square metres at the show.

In addition, AHEC will co-sponsor the 'Talking Timber' seminar, where Dr. Scott Bowe, Professor & Wood Products Specialist from the Department of Forest and Wildlife Ecology, College of Agricultural and Life Sciences, University of Wisconsin,

will deliver a presentation on the US hardwood forest resources.

Mr. Roderick Wiles, AHEC Director for Africa, Middle East, South Asia and Oceania said, "We look forward to our participation in Dubai, a must-attend event for the region's timber trade and woodworking sector."

"The greatest barrier to the increased use of wood is a lack of knowledge. Even specifiers are often dissuaded from using wood because of their own lack of confidence in and understanding of the material. Given that wood has not only enjoyed a renaissance, but has become an essential material for architects across the globe, we are eager to raise awareness about American hardwoods across all elements of the timber chain in the region," concluded Mr. Wiles.

Caple keeps winning streak, expands into Delhi



Mumbai-based Caple Traders bagged the award for highest sales of Altendorf saws in India. It was the second consecutively year that Caple won credit for sales of the German machines in India.

Caple has been very careful in choosing its supplier base, and now boasts of representing top brands in the world, including Homag, Altendorf, Festool, Orma, Schuler,

Robland, Bessey and Tapetech. It thus has under its umbrella nearly the entire range of woodworking machines.

This covers the whole range, right from entry-level but quality mobile and stationary workshops to big factories, with the best software, consultancy, supplies and service. Caple has invested in SAP and training of its team to make it consistently

successful.

Caple also recently started a sales centre in Pitampura, New Delhi, where it has the Altendorf WA8 and WA8X on demo, along with its range of equipment from Festool, Bessey and Tapetech dry wall tools from the US.

Caple has experience in setting up more than 300 workshops in the country already, and is now in expansion mode.



TopSolid upgrades its website

Missler France has recently come out with a totally modified TopSolid website (www.topsolid.com), with simplified features and categorisation of its products, services and clients into Industries, Customer Success, Services, Location and How to buy.

Its TopSolid Wood is a popular made-to-measure solution that integrates CAD-CAM software packages specially developed to meet the needs of the woodworking industry. Its Wood-specific functions integrate machining

issues on the 3D model, right from the modelling to implementation phases. TopSolid Wood has powerful drawing features, data exchange and specific interfaces for manufacturing, along with production of sales and marketing documentation to boost business sales.

The new website has incorporated user-friendly navigation to devices used such as tablet, mobile phones or computers.

The customer success stories and videos presented on the website can

assist clients in taking correct decisions to go for TopSolid software. Many TopSolid users manufacturing similar products can connect with the website user.

The acceptability of the software can be gauged by the fact that it has penetrated into a wide range of reputed industries and companies the world over. TopSolid is represented in India by Mumbai-based DesignCell CAD-CAM Solutions (www.designcell.org)

India to launch forest certification programme

An international conference on forest certification, 'Positioning India', is being held on 16 March, at Ashok Hotel in New Delhi to launch the country's national forest certification system development process.

In light of India's vast forest resource, burgeoning economy, and strategic position in international markets, there is a great opportunity to further position its forestry sector

on sustainability, especially through broader uptake of forest certification.

The conservation and sustainable management of forests in India and beyond is a topic of critical concern. Forests provide solutions to climate change mitigation, biodiversity conservation and poverty reduction. They are also a renewable resource capable of providing essential materials that society depends on.

Through developing India's own forest certification system, in line with PEFC Council's globally recognized sustainability benchmarks, it is envisioned that the certification will become more relevant and accessible within India.

The event is hosted by the Network for Certification and Conservation of Forests (NCCF) and Programme for Endorsement of Forest Certification (PEFC), supported by ITC and SCS India Pvt. Ltd.

For details, contact Ms. Deepali Rautela of the NCCF on +91-120-6500162 or email deepali.rautela@ccffindia.in or nccflaunch@northheads.com.

Primultini acquires Bongioanni

Primultini from Marano Vicentino in Italy, a renowned company with a rich catalogue of sawmill solutions, has acquired the Bongioanni brand, a business in the same industry, part of Pezzolato SpA, since 2001.

According to the agreement, Bongioanni's machinery production

will be moved from Pianfei (Cuneo) to Marano, while the service for thousands of machines installed all over the world will still be managed by the engineers of the Piedmont-based group.

According to Mr. Lorenzo Primultini, president of the company that bears his name, Primultini has acquired Bongioanni's "intellectual property", including brand, technical and sales information, customer portfolio, drawings and designs.

Pezzolato SpA, whose revenues increased by approximately 20% in 2014, will be able to focus on its future

core business of supply of equipment and technology for energy generation from alternative sources.

The real assets are the valuable references that both companies have in Austria, Germany, Switzerland, Africa and Northern Europe. "We were market leader already; now we have further expanded our scope," Lorenzo Primultini added.

By September this year, the first "joint plant" made with Bongioanni and Primultini technology, will be commissioned in a German company, Haberlein GmbH.



Furniture hub to come up in Kerala



A trumpet grade separator on National Highway 47, which connects Salem (in Tamil Nadu) with Kochi and Kanyakumari. Karukutti lies on this busy highway.

The Kerala Furniture Consortium (Kefcon) is setting up a Rs 100-crore international furniture hub at Karukutti, in Ernakulam district, according to a report in Deccan Chronicle newspaper. The hub will come up on 5.5 acres of land along National Highway 47 (Salem-Kochi-Kanyakumari).

It will host an international furniture exhibition centre for units, a skill development centre to train artisans for the industry, a design centre, a convention centre to organise expos, and residential facility for visiting

industrialists.

The central government will meet 50% of the project cost under the modified Industrial Infrastructure Upgradation Scheme (IIUS) of the Union Ministry of Medium and Small Enterprises, while Kefcon and the state government will meet 25% each.

The detailed project report is ready and will be submitted to the Centre soon, according to Mr. V. Rajagopal, Chief Executive Officer of Kerala Bureau of Industrial Promotion (KBIP), the nodal agency for cluster development projects in the state.

The Karukutti project, which was hanging fire for some time over a dispute over the ownership of the land for the infrastructure, has been cleared after Kerala cadre IAS officer, Mr. Amitabh Kant, now secretary in the Department of Industrial Policy and Promotion, intervened.

Central government norms insisted the land must be transferred to the government, but the consortium objected to it, saying the cost is not included in the project cost. Mr. Kant suggested the project can follow the norms of the earlier IIUS.

Vietnam is latest teak supplier to India

The flow of plantation teak imports into India is good and demand is firm, according to the International Tropical Timber Organisation (ITTO). Prices for better quality supplies are rising and supplies have begun arriving from Vietnam.

It also reported natural forest teak logs arriving from the UAE, quoting analysts as suggesting these were logs purchased from Myanmar prior to that country's log export ban.

With the further relaxation in rules covering sawn teak and other hardwood exports in Myanmar the flow of raw materials to Indian mills

is said to have improved. Analysts report that more Indian companies are planning to establish sawmills and veneer mills in Myanmar.

- Over 20,000 cubic metres of teak logs were sold at Timarni, Khirakia, Ashapur, Narmada Nagar, Betul and other depots of Madhya Pradesh at the beginning of the year.

Buyers reported the quality of logs was very good and because sawmills needed to replenish stocks demand was firm as reflected in the higher than average prices.

- Forest depots in Valsad district of

Gujarat held a series of auctions in January and early February 2015. These sales were conducted using the controversial e-auction system, which is still being objected to by many traders, who refused to participate in the auctions.

Those who refused to attend the sales are seeking clarity on e-payments, e-orders and e-delivery instructions. Observers at the sale report the logs were freshly felled and of good quality. The main buyers were state owned mills, which purchased around 15,000 cubic metres. – ITTO



Maintenance tips for CNC machines

Preventive maintenance is of utmost importance for any machine to operate continually at its optimal capacity and have a long life. An unplanned downtime of a day or even a few hours hurts the production capacity and we lose precious time and money.

A meticulous maintenance schedule has to be maintained. Here are some preventive maintenance tips from Biesse Manufacturing, to help keep your CNC machines running at peak performance while avoiding unplanned downtimes.

Daily maintenance (after every 8 hours of operation)



Machine	Proper cleaning of the machine and the surrounding area will make the working environment healthier and safer, allowing commands and indicators to be easily identified. Use a vacuum cleaner to remove any wood chips, and if necessary use a compressor to remove fine dust, making sure you stand at a sufficient distance. To prevent the floor from becoming slippery, waste chips must be removed using a vacuum cleaner or brush.
Work table	Inspect the condition of the table gaskets, the suction cups and the jigs. If necessary, replace them.
Safety devices	Inspect the condition of the cams and their safety switches. If necessary, replace them.
Operating section	Inspect the condition of the curtain guards located on the operating section. If necessary, replace them. Check the electro-spindle tool locking – to do this check, fit each tool on the electro-spindle and check manually to ensure they are perfectly locked. Also check that air is coming out of the electro-spindle coupling area

Weekly maintenance tips (after every 48 hours of operation)



Machine	Clean any encrustations on the guides and racks with a cloth, or a brush with bronze bristles. Using a brush, spread a thin layer of Mobilux EPO lubricant on each rack. Pressure gauge should show 6.5 to 7.5 bar of pressure 'always'.
Work	Use compressed air to clean the filter on each of the work table carriages.
Table	To clean it properly, the filter must be removed from the carriage and the air must be blown onto its inner surface.

Fortnightly maintenance tips (after every 96 hours of operation)



Boring head lubrication	Lubricate the boring head of the working unit Press insert the pump in the greasing nipples and pump in 5 grams of lubricant (approximately 10 strokes of the pump). Every 5 strokes of the pump, turn the spindles manually to distribute the lubricant evenly.
Machine lubrication	If machine has automatic lubrication, ensure that it is filled with Mobilux EPO lubricant. In the case of manual lubrication, search for the grease nipples in the machine, lubricate the racks and linear motion blocks and pump Mobilux EPO lubricant with approximately 3 grams of lubricant (4 strokes of pump)



Monthly maintenance tips (after every 192 hours of operation)



Biesse India serves more than 750 customers in India with over 1,350 installations since its inception in 2008, through a portal conceptualised and developed to support its customers in India, as well as abroad. It is a responsive, round-the-clock portal that can be accessed on any device. It is a free online service support exclusively for Biesse customers:

- To access all their Biesse machine information under one roof
- To systematically analyse and trouble-shoot the machine on their own
- Maintenance tips (with videos) to keep Biesse machines well maintained.

Scan this QR code to watch the machine maintenance videos



- Operating** Check that the electrical cables are not section damaged and properly connected.
-
- Check that the connectors, wires and cables are firmly fixed.
-
- Lubricate the electro-spindle: to avoid problems during tool changing operations, periodically apply Metaflux Fett-Paste 70-8508 grease for metals on the electro-spindle unlocking device.
-
- Apply grease on both the surface of the collet and in the gap between the locking collet respectively.
-
- Spread the grease evenly, using a collet spindle which should be inserted in the unlocking device and disconnected a dozen times.

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Editorial Advertisement





WHAT DO YOU THINK?

WOODNEWS



Balwant Keshav Gogate, Proprietor, *B.K. Gogate Architects / Interior Consultants, Pune, Maharashtra*
WoodNews is the right source of latest information on the industry. One can transform innovative and creative ideas into reality with the help of proper knowledge of new materials, machinery and technology.



N. P. Singh, Managing Director, *Fabtech Engineers, Jagadhri, Haryana*
Thanks to PDA Trade Fairs for organising DelhiWood 2015. It was a coming together of small and big local and global enterprises. Good show, keep it up! *WoodNews* must try to promote more of small scale industry and the skills required for them.



George Fernandez, Director, *Systems Engineering Consultants, Chennai, Tamil Nadu*
With reference to 'Space saving hidden modular kitchen' (*WoodNews*, Nov-Dec. 2014), Dutch manufacturer Maciej Karpiak introduced the initial design of the 'wall kitchen' in Amsterdam in 2010. When closed, the kitchen is disguised as a solid wall surface. The kitchen length is 5620 mm, space occupied 42 m³, and comes in more than 100 types of veneer finishes.
One wall opens smoothly on the horizontal plane to reveal the functioning kitchen, making ample use of storage space. Modular kitchen manufacturers can certainly take a hard look on how to incorporate this innovative design, when kitchen spaces are limited.



Ashok Goel, Proprietor, *Ashoka Cold Storage, Jagadhri, Haryana*
WoodNews is a good magazine, and its contents are good. We require more articles on plywood. Best wishes for the future!



M. Adam Bawa, Manager, *Hindustan Timber Trading Company, Karaikudi, Tamil Nadu*
WoodNews is quite resourceful for our business. It gives us extra knowledge.

EVENTS CALENDAR

Interzum-Guangzhou

Date: 28 March – 1 April, 2015
Venue: Pazhou Complex, Guangzhou, China

As Asia's largest furniture production and woodworking machinery trade fair, Interzum-Guangzhou 2015 will continue to be held alongside the China International Furniture Fair. This will be the first time Hall 12.1 of the Pazhou Complex will be activated for the event, boosting the total exhibition area to 1,40,000 square metres, which is expected to host over 1,071 exhibitors from 36 countries and regions, and attract more than 62,000 visitors.
Details: www.interzum-guangzhou.com

The Kitchen Congress

Date: 17 – 19 April, 2015
Venue: Bangalore International Exhibition Centre, Bangalore, India

India Kitchen Congress is the annual knowledge event of the modular kitchen industry in the country. Entrepreneurs, professionals and investors from the industry attend this conference to gain insights into the business strategies of market leaders, and network with potential customers and vendors. The conference consists of expert presentations, workshops and demonstrations.
Details: www.ikcshow.com

DubaiWood Show

Date: 14 – 16 April, 2015
Dubai World Trade Centre, Dubai, UAE

DubaiWood is West Asia's leading and only dedicated business-to-business meeting place for the wood, wood accessories and woodworking machinery industry. DubaiWood 2014 attracted 8,349 high quality trade professionals from 95 countries across the globe. The participating exhibitors included 500 brands, suppliers and manufacturers representing 40 countries and covered a total of 13,428 square metres of exhibition space.
Details: www.dubaiwoodshow.com

Interzum 2015

Date: 5 – 8 May, 2015
Venue: Koelnmesse, Cologne, Germany

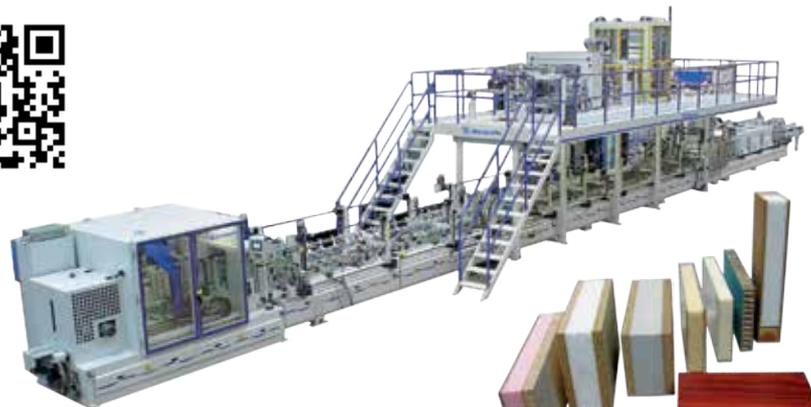
Interzum provides the furniture industry momentum for innovations: decision makers, opinion leaders and multipliers in furniture production and interior design are excited about new products, solutions and concepts. For four days Interzum will again be the central communication platform for the industry. Exhibitors from around the world meet visitors from around the world, and do good business!
Details: www.interzum.com



Barberán solutions since 1929



Barberán was established in 1929. Since then Barberán continues delivering the best solutions in coating, printing, drying, profile wrapping, laminating, post-forming, profile sanding and a wide range of complementary machines for the woodwork industry. Barberán machines are designed to improve productivity and reduce manufacturing costs, taking always into consideration the respect for the environment. Barberán's office and facilities of more than 27,000 sqm, are located in Castelldefels (Barcelona), Spain. With more than 85 years history Barberán has supplied hundreds of installations all over the world, becoming a world leader in the woodfinish industry.

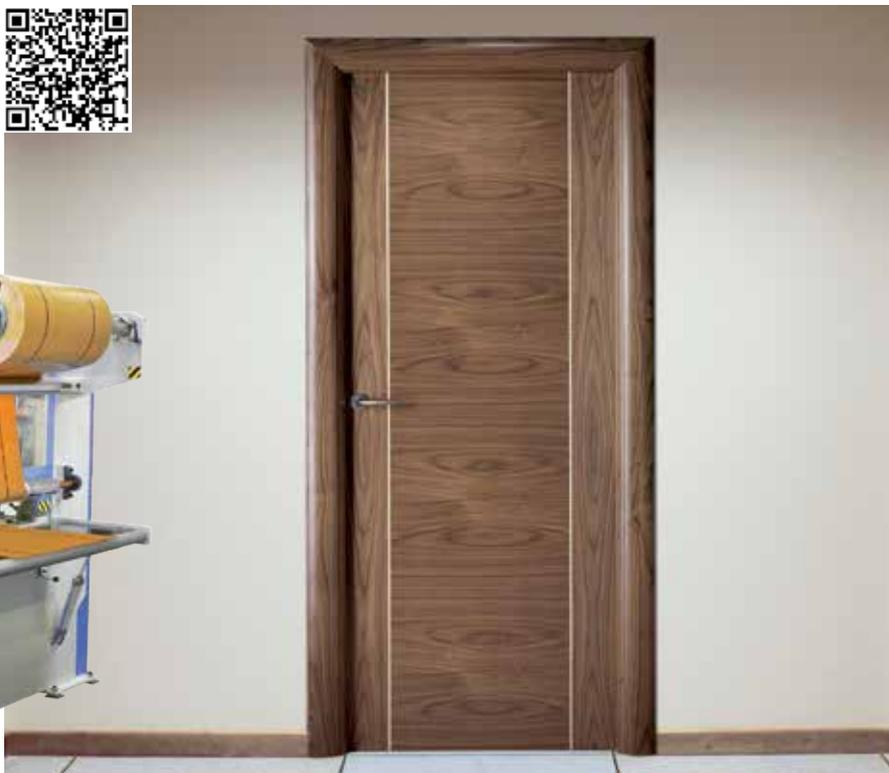




Complete lines for gluing panels

Different modular gluing installations and laminating machine Compact Line are ideal solutions for the panel and door industry.

Compact laminating machine for the application of paper foil, PVC and low pressure laminates (CPL) on panels made of MDF or particleboard using EVA or PUR hotmelt glues.



PUR hot melt laminating lines

Single side PUR laminating line (IT-B)
For foils in rolls and in sheets (cut to size). Maximum flexibility for panels and foils. Production up to 2 panel/minute.



Single side PUR laminating line (IT-L)
For foils in rolls and in sheets (cut to size). Maximum production. Production up to 4 panels/minute.

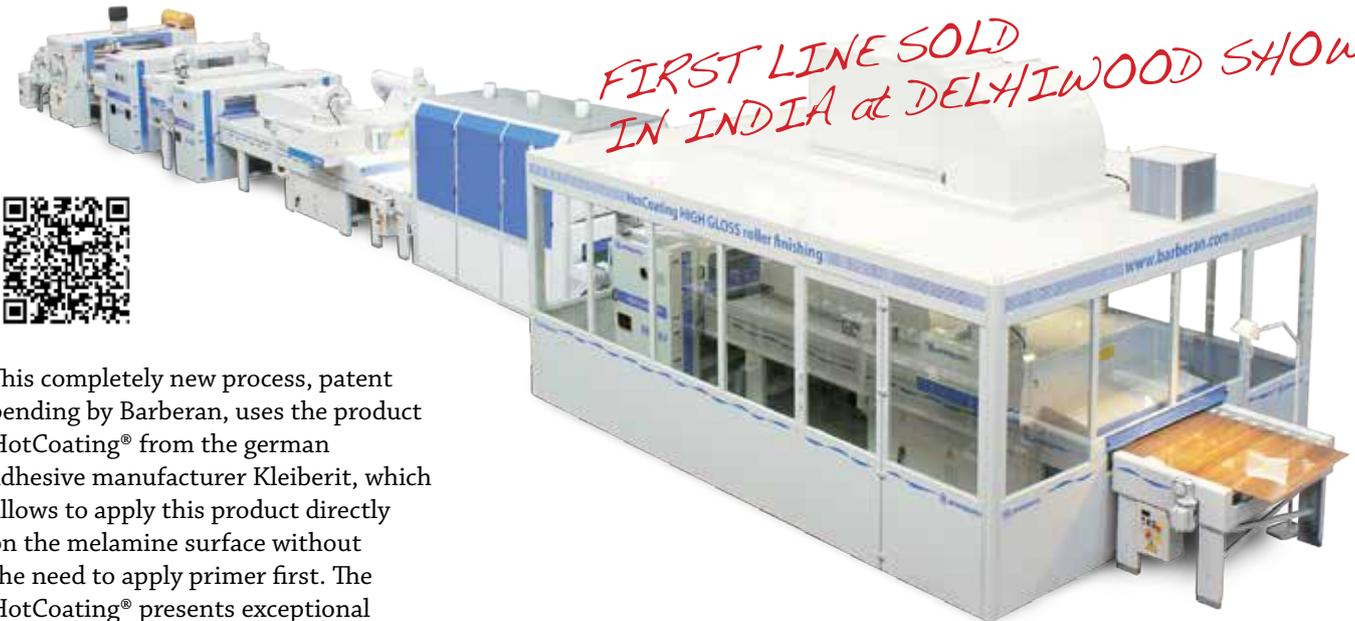


Semi-automatic line for assembling HONEYCOMB doors.



High gloss finishing processes on melamine boards.

*FIRST LINE SOLD
IN INDIA at DELHIWOOD SHOW !!*



This completely new process, patent pending by Barberan, uses the product HotCoating® from the german adhesive manufacturer Kleiberit, which allows to apply this product directly on the melamine surface without the need to apply primer first. The HotCoating® presents exceptional adhesion properties, providing an excellent strength at the same time. The process is interesting, not only for melamine surfaces on MDF boards, but also melamine laminated particleboard panels. For this kind of finishing,

Barberan has developed a specific roller coater that achieves, with a single application, the finish quality that is so far only possible when spraying guns or lacquer curtains are used.

The roller application system is smaller, saves more than 50% coating product, as far 100% solid content lacquers are used, and involves a much more efficient and solvent-free application.





Machines for wrapping profiles

made of PB, MDF or lower quality wood with wood veneer, paper or PVC foil using hotmelt glues PUR or EVA.

RP-30 Machines for profile wrapping with wooden veneer, paper foils, low pressure laminates and similar materials. With cassette of 2 m length for quick change of tooling in case of wrapping often profiles with the same shape. Less than 10 minutes.



PL-32 Machines for profile wrapping with wooden veneer, paper and low pressure laminates and similar materials.



PUR-33 Machines for profile wrapping with wooden veneer, paper and PVC foils, low pressure laminates and similar materials.

With automatic rotary tool change, ready in less than 1 minute, for 3 different profiles.



PUR-101 Machine with twin conveyor chains, designed for the gluing and application of rolled material on panels and door panels, made of MDF, particleboard, low quality wood, etc. (optionally PVC and/or aluminium), by means of a slot nozzle for PUR or EVA hot melt glue.



Roller coating and drying lines



Complete painting lines as a complete customized solution or single machines like roller coaters, brushing machines, curing tunnels, conveyor tables, and automatic gun spraying machines with four or eight arms can be delivered to complete existing installations.



Rotary automatic spraying machine



Spraying machine with improved visual checking capability and redesigned structure with two circuits and eight arms for assembling up to 16 spraying guns. The spraying system is rotary type with a new performance patented by Barberan: the Push Pull System®. Thanks to this system, the sprayed

lacquer or stain arrives to all corners of the pieces eliminating dead zones, which are difficult to reach with conventional rotary spraying machines. The low spraying height contributes to improve the precision and the product savings achieving a finish of highest quality.

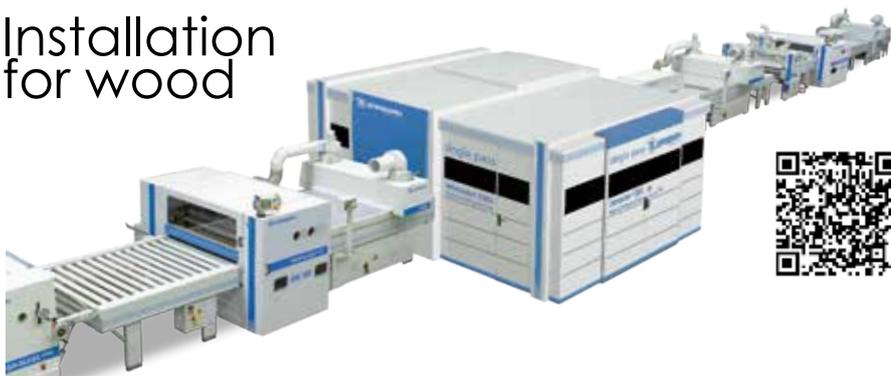




Digital printing machine



Installation for wood



Digital printing machines Jetmaster "Single Pass" for high quality printing of wood patterns or any decorative image available in the computer on panels for the wood industry or cardboard for the packaging industry using CMYK inkjet printing heads and UV curable inks. Printing machine models suitable for printing panels or rolled materials.

Digital printing installation for **corrugated cardboard** *!! New!!*

The Barberan Jetmaster printers are a new concept based on Single-Pass printing technology of digital images on corrugated cardboard and other substrates at an industrial level. Barberán S.A has a long history in conventional printing technologies and is one of the pioneers in Single Pass Digital printing application techniques and develops its own mechanics, electronics and software.



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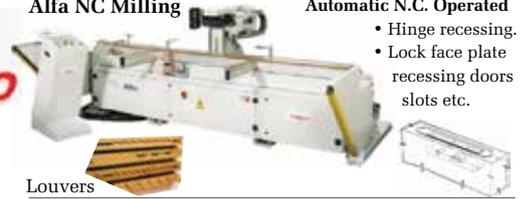
HTZ-800



Sliding Table Panel Saw

Spindle Moulder

Alfa NC Milling



Automatic N.C. Operated

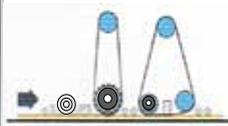
- Hinge recessing.
- Lock face plate recessing doors slots etc.

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Straight Line Rip Saw

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Portable Edge Bander



Manual Edge Bander



Vertical Band Re-saw



Band Saw Blade Grinder

Three Head Multi Boring Machine



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Rectangular Tenoner DAD-115



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