

WOODNEWS

Furniture and Manufacturing Technologies

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Design is soul of furniture:

Sandeep Mukherjee

Coatings and Finishing:

An expert's insight

Focus on Italy:

A way out of the woods

REVIEW:

IndiaWood sets another record with 33,000 footfalls

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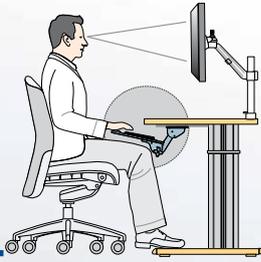
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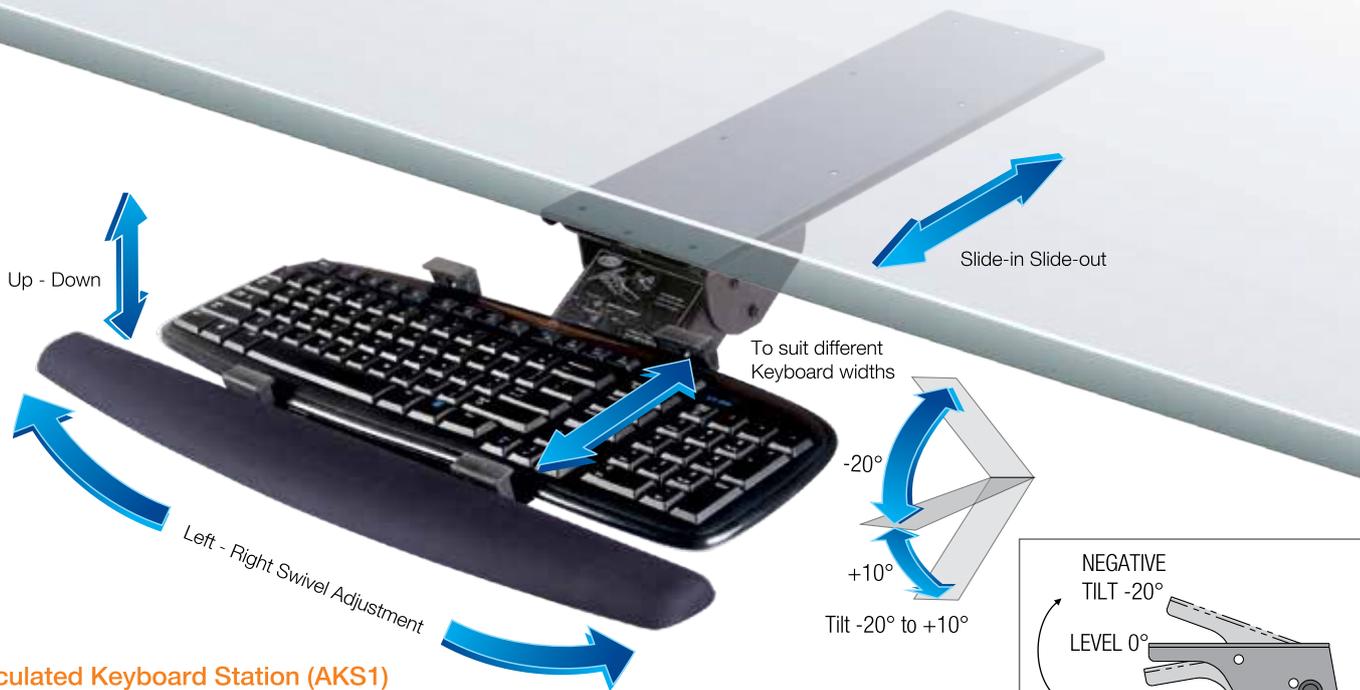
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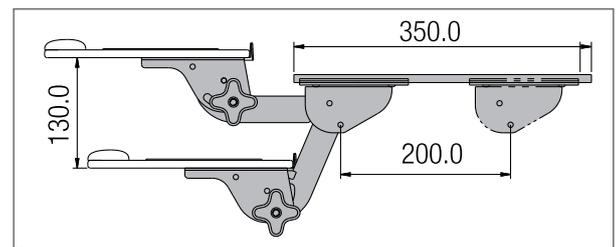
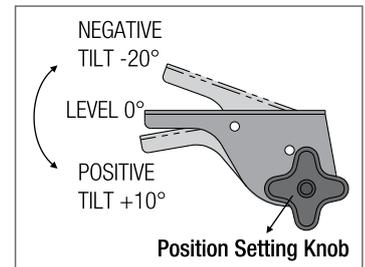


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3 Preservatives/ Treated wood	Field testing of preservative (termite mound, accelerated & stake tests)	IS: 4833-1993
4 Tests on finger & edge glue joints	MOE/MOR/tensile Block shear strength	JAS: 112-1996
5 Adhesives/ laminated wood	pH/ viscosity/ Boiling water & Cold water soak delamination	IS: 9316 (P2)-1987 JAS: 112-1996
6 Plywood/ Block board	General purpose Marine grade Block Board	IS: 303-1998 IS: 710-2010 IS: 1659-2004
7 Wooden door/ flush door	Performance tests on door shutter	IS: 4020-1998



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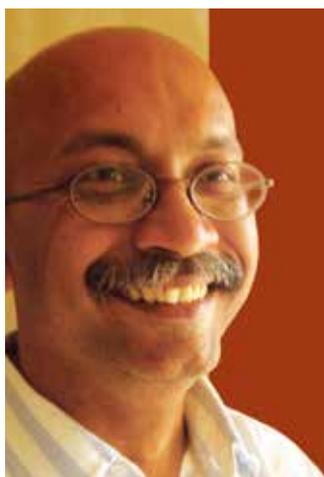
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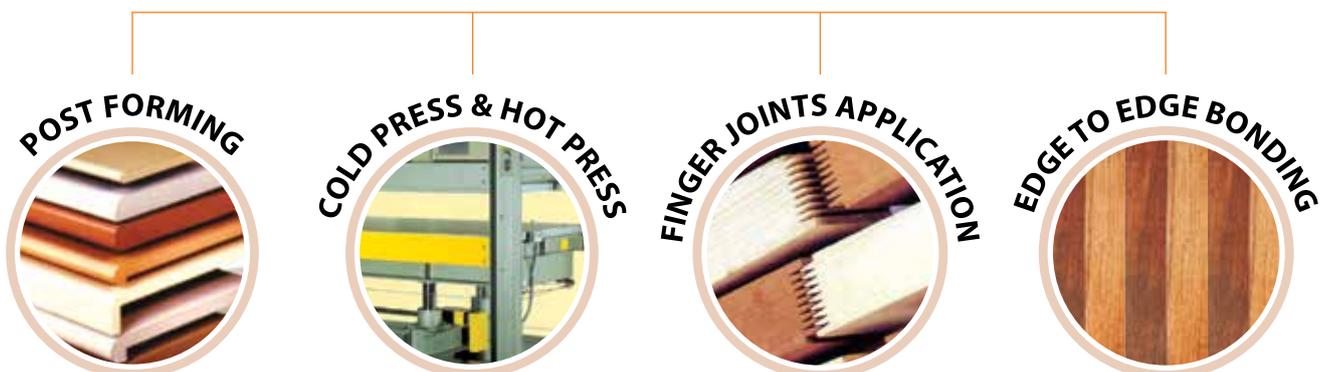
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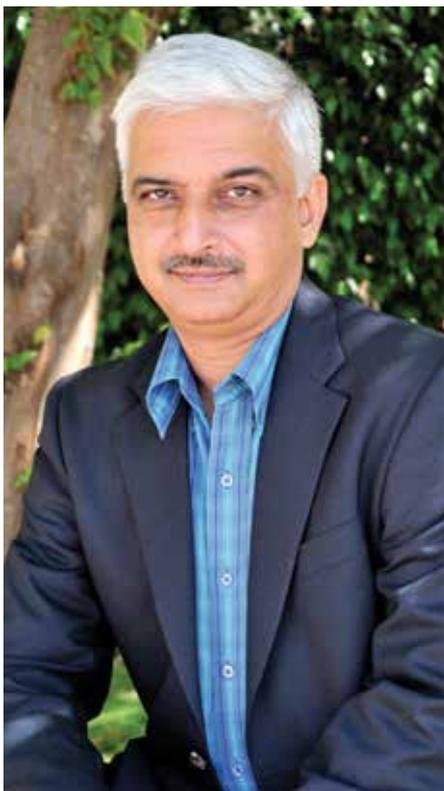
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EDITORIAL



Dear Reader,

What a tumultuous build-up to and conclusion of South Asia's premier woodworking show! Equally 'Wow!' was the kaleidoscope that IndiaWood 2014 (February 21-25) offered – not only to the organizers, supporters and exhibitors, but also the record-setting 33,000-plus visitors to the eighth edition of PDA Trade Fairs' flagship show. True to its pedigree, IndiaWood has grown again, thanks to the unflagging spirit of enterprise of the Indian market, its participants and visitors to the exhibition. But enough of that in this piece: there is more in the review of IndiaWood 2014 in the inside pages.

For those who missed out (for whatever reason), there is DelhiWood 2015 to look forward to. It will be held at the India Expo Centre & Mart, Greater Noida, between 4th and 7th February next year. Don't miss out on that!

The focus this time is on home furniture: from the living room (sofas, settees, divans, coffee tables, lamp tables, etc.) to the dining area (china and cutlery storage, bars, dining table and seating), and into the bedroom (beds, wardrobes, dressing tables and storage). Although the market is awash with locally made and imported brands, little of this furniture is winning the hearts, or the trust, of consumers. The quality- and design-conscious consumer segment seems to be on the upswing and asserting its rights and demands. Is there something we are not doing right? Read on to find out for yourself.

In my attempt to include at least one interesting, "must read" article per issue for *WoodNews'* diverse readership – timber/lumber traders, raw material suppliers, furniture-makers and retailers, hardware manufacturers, architects, etc. – I have attempted to draw knowledgeable people from within the industry, and my efforts seem to be paying off. This time you have a basic guide to wood finishing and coating; and I can promise that many more are on their way to your doorstep with each new issue of this magazine. I have also increased content in the 'News & Notes' section, to keep you all abreast of happenings. Nevertheless, your observations and suggestions are always welcome at editor@woodnews.in. Goodbye till next time.

Dhananjay Sardeshpande



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Among home furniture makers that swear by wood and design are a clutch of young qualified designers, architects and tech-savvy people. The national and international award-winning Quetzal team has its design studio and state-of-the-art factory in Bangalore. They are led by NID (National Institute of Design) alumni, **Mr. Sandeep Mukherjee** and **Ms. Sarita Fernandes**, who have more than 20 years of experience between them. WoodNews spoke to the duo to find out what makes Quetzal tick. Excerpts:

What is the importance of design in woodworking, with specific reference to home furniture?

In our opinion design is everything. Design is a key differentiator in many ways, the obvious being the aesthetics. That apart, design is about combining material properties, available processes, structural logic and aesthetics, and add to this empathy for the end user.

Design is not patina on a worthless product to make it better looking. Without design one product is like any other and lacks soul. Design draws from deep within our culture and traditions, and interprets this in ways that will suit and fit into our present lifestyles.

Are there India-specific concerns in furniture making and interior design?

We have assimilated many cultures and religions in our midst and live together in relative harmony. There is no other country in the world that has what we have here. So, if we are truly unique in this manner, why should we be subjected to hand-me-downs from other countries that do not suit our usage patterns and culture?

Our mindset of rework, reuse and recycle has actually helped us conserve. We have had furniture handed down to us over many generations. We hate to throw it away. We like to get value for money. And most of all we like solid wood.

Why then have we been subjected to furniture from the throw-away culture?

Particle board furniture that has been cheaply made with minimum hardware and structural strength, which is typically used in the US as stop-gap and disposed of in a garage sale after two years. This does not fit with our mindset; nor does this furniture take all the rigors of Indian usage.

A typical example: a bed is used largely for sleeping only in the West; but in our culture a whole family will be seated on a double bed, together



 A dining set from Quetzel's 'Asterix' series.

with kids jumping on it out of the sheer fun of being together. The bed designed for Indian usage needs to take this in account and not collapse. There are a million other examples that are specific to India.

Are Indian (home furniture) manufacturers and designers on the right track? If not, where do they err?

Here I (Sandeep) would like to say that most manufacturers are that: only manufacturers. They are into this only as a business, where they cater to clients' needs. They do not engage designers as that will mean spending. This is short sightedness. Design is the only path forward for long-term growth in creating a brand that can fight in the global arena.

In today's world nothing stops us from selling globally. Most manufacturers' understanding of design is "It is frills

and fancy, not really critical or needing serious thought". This mindset needs to change.

Secondly, I would blame interior designers and architects who advise clients on what looks and works right. A lot of them just look at glossy international magazines and like to implement these ideas in their projects, without giving a real thought to the clients and their lives.

Climate and infrastructure are also critical points to look at while designing. We do not have central heating and cooling, but keep designing with steel and glass, both good conductors of heat. This is uncomfortable when it interacts with our skin. If all areas were maintained at a constant temperature we would not be bothered by this. But the reality is that is isn't. 



■ Solid wood bedroom furniture from the 'Kabini' series

Another thing that manufacturers need to look at is to think in the long term. Manufacturing is not trading, and there are no fast money gains. Investing in R&D (where D stands for 'design') will go a long way in building a robust organization.

What is the trade-off between cost-conscious manufacturing and good design? Where does one draw the line?

Good design does not have to be expensive. So actually there is no real trade-off. In fact "good design" can help reduce the cost of a product!

In a market driven by price-sensitive Indians, how do you convince your clientele?

Quality sells, has sold and will continue to sell. Good design sells, has sold and will continue to sell. (Scandinavian furniture designer) Alvar Alto sells, and is aspirational as it is very good quality and good design. Ikea sells as it is good design (utility and empathy).

We would not say that Indians are 'price-sensitive'. The right word would be 'value-conscious'. We Indians expect to get the best value for the

money that we spend on a product or a service. We have always convinced our clients on the platform of quality and design.

The industry is shifting towards substitutes like plywood and MDF to save trees and make cheaper products; but Quetzal's products are largely made of solid wood. Why?

Wood is the greenest material that one can use. However, one needs to be extremely clear about sourcing from the right places, where this is sustainably harvested. We buy only from sustainable sources. Wood can be regenerated, takes minimum energy to grow and convert, and is easily recyclable.

It is a natural material and reacts to you when you work with it. In that sense it is alive, not inert. It challenges you to tame it and help it to express itself.

MDF and reconstituted boards are also green, but use a lot of resins to bond. There is a whole set of processes before we can convert them into finished products. Plus there are limitations of the material. Of course, we use MDF as well, but we work

predominantly in wood.

Slowly good thinking is taking man back to constructing with natural materials that can be regenerated. Wood in housing is one such example. Traditionally we have built with wood across all climatic regions: Kerala to Kashmir.

With the advent of concrete and glass we have been using a lot of it to construct, where consumption of energy is humungous. Aluminum, glass and concrete are all anti-nature and anti-environment. Yes, they give some aesthetic possibilities; but the fact remains that there is a huge drain on precious energy.

Who are your most important clients in the home furniture sector?

We have a lot of (names of) people who have our furniture in their houses. To name one, I (Sandeep) would say Mr. Nandan Nilekani. (Ex-CEO of Infosys, headed UIDAI, now Congress candidate for Lok Sabha elections).



■ 'Binkey' storage option.



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Living room sofa set from the 'Ligo' series.

What awards and honours have come your way?

We have received many awards for our furniture. However, we have stopped participating in competitions. Our aim is to bring good design to the masses. When we achieve that, it will be our biggest award!

Every industry devises a way of identifying and motivating good workmanship, product design and business practices. Is that lacking in the woodworking sector (in India)? How can it be set right?

Woodworking is in its nascent stages and this is to be expected. The industry needs to make a lot of critical course corrections, with the intention of creating a larger ecosystem. Better workmanship is possible only when there are trained people available. Just physical training is not enough; mental training is probably more critical. The right mindset is most important.

We need to change the following in us before we can take steps in the right direction:

- 'Chalta hai' attitude
- Short cuts in processes

- Deficit of attention to quality
- Promising a tonne, but delivering only 1kg
- Putting an end to copying
- Investing in research and development
- Investing in training.

How do you differentiate between furniture for the living room, kitchen, dining and bedroom?

Dining and living areas are merging and kitchens have become open. The dining area has become the centre of interaction in the house – be it family or friends, people gather around the table to eat, drink and talk. The bedroom is still a private space; the living room is still formal; but the dining area has become a multipurpose space. In a cultural sense, the use of space is changing.

With the likes of Ikea pondering operations in India, how will it affect the home furniture market and manufacturing in the country?

This will actually change mindsets of people and organize the market. Today the organized market is only 15%. Even a 5% shift in this humungous market is a massive

change. Ikea will open up the market for everyone.

For manufacturing, this is good because large furniture retailers need consistent supply of goods. The Indian furniture manufacturing market cannot meet this demand at present. But this will change and we will see the beginning of big furniture producers who will be catering to the likes of Ikea.

What are your future plans? In what direction are you expanding?

Design for the masses. We want to get good design to people and make it more affordable for them.

Sarita, how does it feel to be a woman entrepreneur in a male-dominated industry?

As a designer I (Sarita) do not feel out of place being a woman as the field of design does not discriminate between sexes. Working at setting up a manufacturing facility is a whole different game altogether. As a person I like challenges, though I am cautious. This has helped me in working in this sector without feeling that I am in the wrong place.

I will still say, however, that our design-led approach has been the main reason why we have survived in this tough and unorganized sector of furniture manufacturing. I look at myself as a pioneer in this field.

That sets my mind to look at the fact that there will be challenges and the whole task of working to get where we want will only be uphill. But in the end, when I hear someone who bought our furniture 14 years ago still has it and cannot throw it away because they love it too much – that renews and strengthens my resolve to keep at it. In the end we will win!

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Bed storage system from Pessotto



Increasing space constraints and a growing desire to maintain a lavish lifestyle have modified the intrinsic needs of the customer when it comes to home interiors. Häfele's range of bed systems addresses this need by introducing Pratik, a bed storage system.

The Pratik bed lift storage system allows the customer to add a dose of flamboyance with practicality to the bedroom. Whether it's the extra pillow covers or cushions or a collection of bed sheets, the bed storage is the answer to all storage needs. It is a smart solution for turning a cluttered master bedroom into a relaxing retreat.

Pratik, a patented system by Pessotto Reti, allows for two types of elevation functions, horizontal and complete opening.

- The 'horizontal elevation' function aids easy lifting and lowering of the

bed in the same horizontal position without intermediary steps. It assists free movement, which makes the task of bed making comparatively easier.

- The 'complete opening' function turns the bed unit into a complete storage unit and enables free handling of items in the storage space

Unique to Pratik, these functions result in obvious advantages such as easy cleaning and bed making, total ergonomics and movement fluidity, large storage space, effective ventilation of the mattress, prevent proliferation of mites, help maintain correct posture.

Häfele's Pratik range includes the bed storage fittings (lift system) and slatted frames, suitable for mattresses in 1400mm x 2000mm or 1800mm x 2000mm sizes.



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Brother Membrane Press has been in the Korean market for over 15 years. The company has supplied over 700 presses in the domestic Korean market and has been exporting to the overseas market since 2005. Brother presses are now supplied to 20 countries in the world through dedicated dealers.

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BROTHER®

Ebco has solutions for all needs

Ebco's **Hi Slide** wardrobe sliding system (overlay 2 doors/ 3 doors) is specially designed for two or three overlay top running shutters (wood/ aluminium frame). It can take a maximum load up of 50kg per shutter. Optional soft closing function allows the shutter to close in slow motion, without banging.

Hi Slide Topper 25 is a top running overlay sliding door system. For wardrobes with extra-large doors, for effortless opening and sliding. Max wardrobe width is 2.6 metres (2 doors) and 3.9 metres (3 doors). It also comes with a soft closing system (in both directions), and the maximum weight per door is 85 kg.

Hi Slide Inline 55/85 is for wardrobes with extra-large doors with effortless opening and sliding. Doors remain in-line after closing. Maximum wardrobe width is 4 metres (2 doors) and 3.6 metres (3 doors).



Libell Extendo drawer shelves have a 'Red Dot'-award-winning design from Peka of Switzerland. This discreet pull-out shelf blends in perfectly in kitchens, living rooms and dressing rooms. It combines direct access through the front of the shelf with an excellent overview of shelf contents, making it truly unique.



The shelf's closed base and rim prevent objects from falling out or jamming. The materials rigidity makes it especially suitable for use in widths of 450mm, 600mm and 900mm. The shelves are easy to clean, thanks to their curved corners.

Optional extra shelf to Extendo can be attached at three different angles, offering a range of solutions for kitchen, living areas, wardrobes or dressing rooms. They are also suitable for use with sliding doors.

Wardrobe lifts are unique products which enable the wardrobe interiors to be used in a new way, hanging suits



and dresses at top. It can be lowered, locked in a position to load or unload clothing, before returning easily into the wardrobe silently.

Ebco's range of high quality wardrobe lifts is particularly suited to interiors from 500mm to 1150mm wide and load requirement from 10 kg to 20 kg.



Wardrobe racks for trousers/saris have a large capacity; each trouser hanger is designed in loop shape and can hold at least two pairs. Each rack also has two hangers for skirts or ties. The hangers are easily removable from the structure.

The wardrobe rack is fastened to both side of the wardrobe and the width is adjustable using two telescopic tubes to fit different sized units. Partially pull-out on aluminium ball bearing runners, it adjusts to widths from 750mm to 1150mm.

Pullout tie hanger features modern, original lines with clips for easy positioning of ties, belts and scarves. It also has a handy transparent catch-all tray and can be partially pulled out on an aluminium ball bearing runner.

Temporary hanger is a small and very convenient accessory. Fastened either to the sides of the wardrobes or under shelves, it enables clothes to be hung temporarily.

Wardrobe Baskets (Wicker/SS304) are easy to fit, with load capacity of 18 kg. These accessories are designed



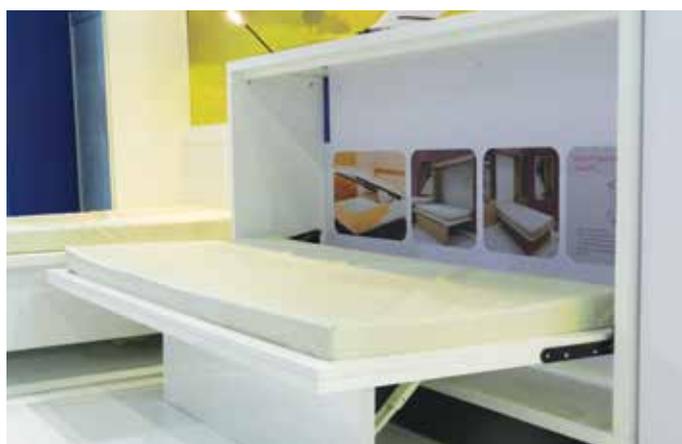
to suit wardrobe width of 450mm and 900mm (adjustable) and depth of 500mm.

Pullout mirror uses minimum space of the cabinet and eliminates the need of a separate dressing table. Can be pulled out and turned by 90°.

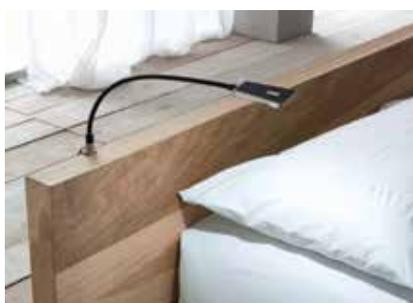


Folding bed fittings are affordable wall bed fittings, designed to save space and utilize it. It creates more room for guests, work, hobbies and everyday living. Ideal for children's bed, hostels, multi-purpose office, etc. The bed gets concealed in the wall unit when not in use. Optional legs can be folded along with bed while closing.

Pro-lift bed fittings are ideal for storage under bed. 30° opening angle of top board allows easy access inside the bed. Easy to lift (with the weight of top board) with minimum force. Easy access as the gas lift keeps the bed top stay.



Ebco's **reading lamp** has warm bed lighting designed with a flexible arm and three incremental dimming options.



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Wemhöner 3D VARIOPRESS® Lines upgrade wood based panels. Worldwide.

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Neat solutions by Wemhöner for curved doors and high gloss applications: all three models of the 3D VARIOPRESS® product range offer customised system solutions of the highest quality and with the lowest operational costs.

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Fein MultiMaster revolutionises hand tooling



 *Fein SuperCut construction with a cutting depth of 60mm, enables fast, clean cutting of construction woods with a depth stop.*

Fein MultiMaster, a revolutionary oscillating power tool with more than 100 applications, was developed for professional use in manual trades and industry and stands up to the toughest requirements. The low weight and ergonomic shape ensures work progress is fatigue-free and comfortable.

As the inventor of the first electric hand drill and as the oldest manufacturer of power tools in the world, Fein has unique know-how in the power tools industry and is also the forerunner in oscillation technology.

Developed in 1967 as a plaster cast saw, it immediately solved a special medical application problem. Fein recognized the potential of oscillation technology and developed numerous additional application areas – first as a bodywork saw, then as a triangular sander and all the way to the current unique versatility of the MultiMaster.

It is extremely durable transmission and the oscillating motion ensures

an outstanding working speed in all applications such as sawing, sanding, cutting, scraping and polishing on virtually all materials.

The MultiMaster has an oscillating

movement of up to 20,000 oscillations a minute and its amplitude of 2x1.6 degrees enable a high sanding capacity and fantastic cutting performance, as well as a whole host of applications.

Many accessories for the MultiMaster are only available from Fein, such as the round backing pad, the table and drill stand support, the profile sanding kit and the depth stop for saw blades. Fein has the cordless version of the MultiMaster with the latest lithium-ion technology with the same performance and versatility as the corded tool.

The charging process is controlled by Fein individual cell monitoring. It protects the cells from overcharging, overheating and deep discharge. The housing was also redesigned for ergonomic reasons. It offers a small grip size and is perfectly balanced for continuous use.

The new QuickIN rapid change system enables tool-free accessory changes and an optimum power transmission thanks to the patented 8-star tool



 *The concave segment blade for cutting soft materials like felt, leather, polystyrene.*



mounting system. QuickIN saves a lot of time when there is a need to constantly change accessories to suit your applications.

QuickIN lets you change accessories without using much force thus offering comfort to the user. The Fein accessories add endless possibilities of applications to this single tool like sawing, sanding, grinding, rasping, grout removing, scraping, profile sanding, polishing, nail removal, plumbing, miniature, etc., thus letting you choose the apt accessory that suits your application.

Fein Power Tools India Pvt. Ltd., based in Chennai is a wholly-owned subsidiary of German manufacturer C&E Fein GmbH. Fein holds more than 800 active industrial property rights, including around 500 patents and patent applications. Fein markets its products through 18 international

subsidiaries and more than 61 countries representations around the globe.

In India, it has its corporate office in Chennai and regional offices in Gurgaon, Delhi, Pune and Ahmedabad.



The crimped HSS sanding sheet saves effort and upholstery, as staples can be easily removed and do not have to be pulled out with pliers.

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Making dream homes come ALIVE



A family portrait of Mr. Thomas Markose (standing) with his father and Kelachandra founder, Mr. C.T. Markose.

They did not just aim for success, but continue to strive to become men of value. That about sums up the resilience and versatility of Kelachandra Brothers, a company established in 1980. From supplying natural veneers in the initial years to the foray into home furniture and flooring, **Mr. Thomas Markose**, its Managing Partner, traces the journey of the hugely successful Bangalore-based family enterprise.

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Veneer doors display at the Kelachandra factory premises in Bangalore.

By Suraj Uprety

Coming from wood-rich Kerala, the Markoses commissioned a veneer making unit on a plot of land on the outskirts of Bangalore in 1980. That was the beginning of the housing boom in Karnataka's capital, fed by a burgeoning information technology industry.

In the three decades since, the Kelachandra Brothers (that is how they are best known) have ventured into pre-hung doors and frames, home furniture – cabinets in particular – modular kitchens, wooden flooring, and have now included beautifully imbued glass and aluminium components into modern interiors.

Mr. Thomas Markose, Managing Partner of the company, unfolds the early years, when his father, Mr. C.T. Markose, founded the company. "We know the industry; we've been producing veneers since 1980 and exported those made from Silver Oak, Laurel and teak. Indian Rosewood had a handsome reputation and was always in demand," he recalls.

Competition grew in the coming years and exports went down. Along with veneer exports the company started

manufacturing veneered ply. "It can be cut, nailed, polished. It was in such demand that we had dealers all over India," says Mr. Thomas.

Among the popular veneers made by Kelachandra Brothers are from Golden Cedar, bamboo, African Mahogany, Padauk, Wenge and Sapely, Indian Rosewood, Mahogany and Rubberwood, Silver Oak, European Beech, Oak, Maple, Cherry, Ash and Walnut, Burmese teak, and pencil-grained Beech.

The company is very well connected with the industry in Bangalore, Chennai, Kochi, Mumbai, New Delhi, Pune and Ahmedabad through its veneer dealership network.

The company specializes in providing veneers in various backings: fleece, paper, MDF and ply. The standard sizes of the sheets are 8'x4', 7'x4' and 7'x3'. Each veneer has a unique colour, lustre, texture and grain pattern. The natural surface has all the desirable qualities of wood, and is supplied sanded and ready to be stained, varnished or polished.

Some special veneers are imported from Europe. "Europe is the coming-

Hand-crafted furniture

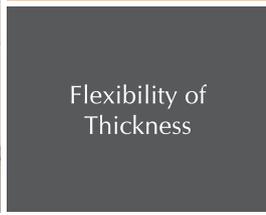
"Carved furniture is a complicated process. First, you can't train an artisan overnight; the skill and art has to come from inside. It is a specialized product that depends on your artisans.

"It has good demand, but the manufacturer has to depend on skilled labour. If my employee goes on leave, the piece will lie there till he gets back to working on it. If he leaves employment?

CNC machines can be used for carving, but that needs orders in large volumes to justify the investment on costly machines, tools, software and maintenance," Mr. Thomas Markose states.



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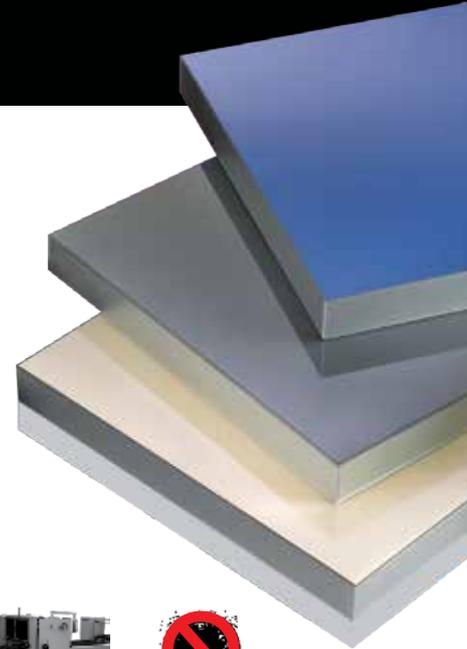
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TRADE ENQUIRIES SOLICITED

together of American, African and European species. But they don't produce thin veneers; so for that we look to China," Mr. Thomas explains. "Teak veneers are the best, but we also use a lot of Walnut. We avoid light-coloured species because in India they catch dirt easily."

Diversification

Mr. Thomas insists Indians are "amateurs" when it comes to home furniture. "There are a dozens of people selling furniture, but it is all imported from Indonesia, Italy, Malaysia or China. When you look at a piece of furniture you know that you can produce it at a cheaper price. Yet we don't take the effort to produce, we don't have the support, the technical know-how."

So how did diversification into furniture come about? "In 2000 China came into India aggressively with its cheaper veneers. It almost killed the local players. Since we didn't want to downgrade the quality of our products to bring down the costs, we started with cabinetry. Simultaneously, we exported hand-crafted furniture, mainly to the US," Mr. Thomas explains.

But since skilled labour was costly and in short supply in Bangalore, the company moved on to cabinetry, a machine dependent product. "We did some commercial projects, but we are more confident doing residential projects," Thomas clarifies. Cabinetry and shutters, along with cornices, and skirting, are its most popular lines today.

"All production is done using world-class machines. Our clients are always welcome to see the facilities and also inspect the quality of work," Mr. Thomas stresses.

Its solid wood shutters come in two forms, KC Royal (raised panels) and KC Classic (flat panels), along with KC Edge (edge banded shutters), KC Form (post formed shutters) and KC



 A wardrobe from the Kelachandra stable.

Light (honeycomb shutters). They are supplied with or without PU lacquer, and come in various finishes: glossy, matt, open-grain and pigmented.

The Bannerghatta Road factory has the flexibility to manufacture custom designs using veneering, post forming, CNC routing, grooving and inlay work. All veneers for flat lamination, membrane pressing, post forming and edging are manufactured in-house for optimum quality control.

The wide range of shutters – with mesh, louvers, cross-glass and exotic-carved designs – come with end panels (exposed), cornice and skirting to match them. All products are water- and moisture-resistant.

Know Your Material

MDF has been widely used in the woodworking industry, especially in kitchen cabinets and wardrobes, with fair durability and cost efficiency. "It

is definitely not a product you would want to leave out in the rain." Mr. Thomas says, adding: "MDF is good enough for kitchens. You should know the product and its 



 Post formed and edge banded cabinet shutters.



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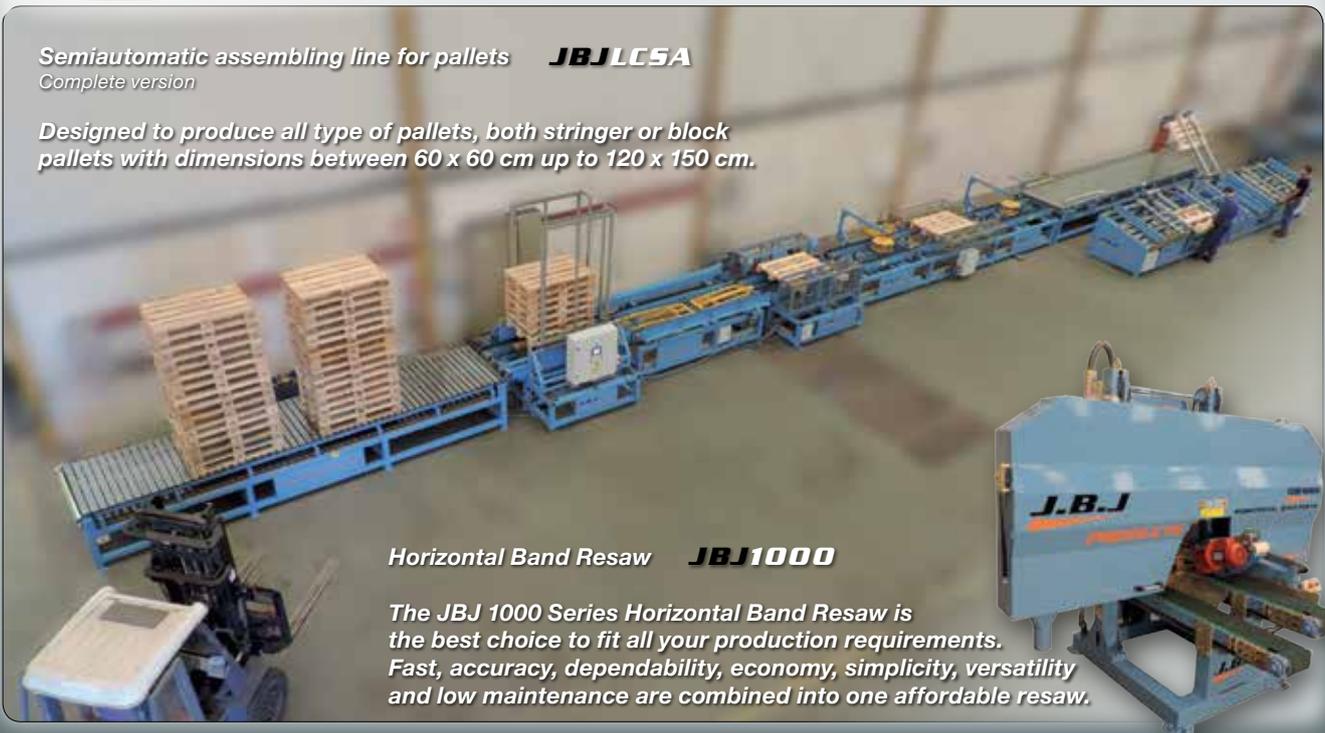
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- Used in kitchen/office shutters

Fleece veneer:

- Pre-sanded natural veneers
- Pasted on flexible imported fleece backing
- Can be cut/laminated on flat/curved surfaces
- Can be polished
- Profile wrapping in kitchen shutters, 3-D furniture

Deco ply:

- Defect-free imported backing ply
- Cut and used for flat lamination

Thin wood veneer:

- Strips used for edge banding, moulding
- Good replacement to decorative papers and PVC
- Colours matched to base veneer



A Leadermac six-head moulder.

limitations and work around it. You should know the right fixtures to use, the correct way to install fittings. Hinges these days come with locking mechanisms, you don't need to screw them. You get clips these days, which make it possible to remove your cabinets, clean them and fix them back."

About 60% of particle board and engineered wood requirement is met in India now. Manufacturers use state-of-the-art machines because nobody would want to lose his reputation. Yet the company imports technical MDF, which can't be produced locally.

The family concern has now roped in cousins to jointly enter the interior design space. "We do a lot of glass and aluminium products nowadays. We import lacquer and special glass in bulk. We import aluminium profiles from Russia. All cutting, tinting and profiling is done in-house," Mr. Thomas reveals.

The company supplies to people who do sliding doors. Along with unique design options and finishes it also gives a three-year guarantee on its products. "Look at any modern house you'll

always see a mix of aluminium, glass and wood. The scope is limitless," Mr. Thomas notes.



A Kundig (Swiss) wide belt sanding machine.

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High Speed Router

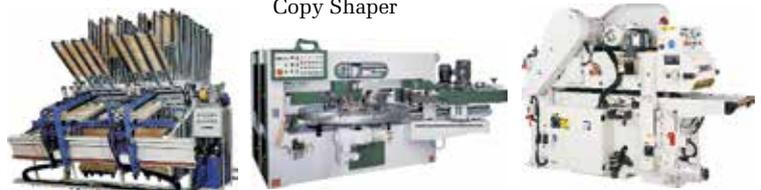
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ALL PARTICLE BOARDS ARE SAME!
ALL PARTICLE BOARDS MAY LOOK SAME!!
BUT ARE NOT THE SAME!!!

AS PER EN 312 BOARDS FOR FURNITURE AND
INTERNAL FITMENTS MUST BE OF TYPE P2

Particle Boards have set a revolution in the engineered wood panel trade since 1960 globally and in India post 1980's and the demand has escalated in leaps during this century. Particleboards are products of high technology and technical configurations and are highly performance oriented. Several furniture manufacturers are buying huge volumes of particle boards to process in their factories and the biggest challenge is to know if the buyer is paying for the quality for a board which looks more or less the same externally but internally has a large play field to be "tailored" by the manufacturer based on price demands of buyer. Some Questions and Answers to clear the mist around

Why is choosing the correct Particleboard important in determining the quality of your furniture.

Particleboard is an engineered product capable to last a decade withstanding the daily use abuse just like plywood if used of the right quality with the right Modulus of Rupture, Modulus of Elasticity and Internal bond properties. HeveaBoard specialized in producing Low Emission Particleboard which do not compromise on mechanical properties.



Why does door hinges loosen after some time?

Holding hinges is a property of the construction of the board. If the board has a low internal bond the hinges loosen within short time and can cause the shutter to come loose from the carcass.



Why does cabinet shelves started to warp after some time?

Sagging or warping by placement of any weight on the shelves is caused by the board having poor modulus of rupture. A poorly produced board can sag even by its own weight!!!



Why is my furniture made of particleboard swell?

Swelling is a natural reaction to moisture for any wooden product however the resin formulations inhibit swelling to large extent to less than 8% after 2 hours immersion. However compromise on the resin additives and formulations will cause reflection on furniture by display of the swelling.



HeveaBoard

Why are Bending Strength and Internal Bond of Particleboard important?

Bending strength and Internal Bond are the key engineered lifestyle properties of the particleboard which reflect like a healthy heart and a positive mindset in a human body. Poor properties mean premature death of the furniture.



HeveaBoard Quality vs Competitors.

eg. Bending strength of $>13\text{N/mm}^2$ vs 10N/mm^2 .

Internal Bond of $>0.35\text{N}$ vs 0.25N .

Thickness Swelling $<5\%$ vs $<8\%$

HEVEABOARD never compromises on quality and ensures the product at market prices at all times. It has dedication to uplift the falling standard of quality in the particleboard industry. All boards look same from outside to a furniture manufacturer and lack of the knowledge of cause and effects of the key properties on the life of furniture is rapidly earning a bad name for particleboard industry in India.



What is Formaldehyde?

Formaldehyde is a common precursor to more complex compounds and materials. When treated with phenol, urea, or melamine, formaldehyde produces, respectively, hard thermoset phenol formaldehyde resin, urea formaldehyde resin, and melamine resin. These polymers are common permanent adhesives used in plywood, ParticleBoards and MDF. Production of formaldehyde resins accounts for more than half of formaldehyde consumption.



Why is Formaldehyde hazardous to health?

Formaldehyde has been declared a known carcinogen chemical and for any indoor use the emission level is necessary to be below $8\text{mg}/100\text{g}$ oven dry board.

Why choose low emission Particleboard?

Low emission ensures the air quality has no toxic emissions from the furniture items. In India unfortunately the awareness of the formaldehyde emissions is too low. In EU all engineered board manufacturers have self imposed to produce only E1 norm as standard minimal emission and other countries too have similar or lower emission like E0 level board mandatory. HeveaBoard can supply upon request E0 as well as CARB P2 and F**** compliant particle boards.



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Learning the grain of the wooden world



Basics of wood coatings and finishing, their drawbacks and advantages

By Shammi Sharma

Wood has always been a staple from which some of our most treasured possessions are crafted: homes, furniture, cabinetry, flooring and even musical instruments. The passion for wood has remained steadfast for hundreds of years.

However, wood is a soft, porous and sticky material, which easily attracts dirt and moisture. It is difficult to clean and requires staining and lacquering to protect and enhance its appearance.

Surface finishing, therefore, has two basic functions: to protect from wear, abrasion and liquids, micro-organisms and insects (especially for garden furniture), and to bring out the natural (and often hidden) beauty of wood.

The benefits of surface finishing cannot be overstated when working with wood. Some of the main benefits are:

- Stabilizes the surface towards swelling, splitting, shrinking, etc.

- Protects the surface against mechanical and chemical exposure, including abrasion values for flooring and various requirements for furniture.
- Emphasizes the beauty of the substrate.
- Gives the surface a new appearance using either dye or pigmented finishes.
- Supports the design and appeal of the object.

However, there are many drawbacks — such as the environment of volatile organic compounds (VOCs) — but these are being overcome through research and development, bringing in new advantages to wood-finishing technology.

Water-based finishes (WB)

In a dispersed binder the polymers are present as finely dispersed droplets in a liquid, usually water (just as in

milk). When the water evaporates the droplets will fuse, forming a coating film. The process is irreversible and the film will soften, but not re-dissolve when exposed to water. The most common types are based on acrylic co-polymers.

Compared to coatings based on cross-linking binders, water-based finishes have lagged behind, especially in regard to drying, thermo-plasticity and resistance properties. Additionally, water in itself will give swelling and fiber raising of the wood surface. In recent years, however, WB coatings have improved and are gaining acceptance for an increasing number of applications.

Polyurethane finishes (PU)

This type of product is mostly two-component; but single-component products (moisture curing) are also used. Curing is a chemical reaction between binders in the coating component and binders in the hardener, where the non-volatile part of the hardener becomes part of the cured coating.

PU finishes are characterized by excellent film properties, high chemical resistance, flexibility and good abrasion resistance. The curing is slower and cannot be accelerated by force drying, but the chemical reaction will go to an end even at very low temperatures. Also, high relative humidity will not affect the curing in regard to chemical resistance.

Ready-for-use mixture of the two components has a solid content (30% to 50%) and gives a good build even on open pore types of wood. The film can be formulated to a high-gloss appearance or 'wet look' and the same goes for rubbing and polishing properties.

PU finishes can be used for exterior applications as well, if a suitable hardener (aliphatic type) is selected; and the cured film is usually non-flame spreading.

However, because of its slow drying, 



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Wood in furniture:

	Sanding Properties	Staining Properties	Coating Properties	Others
Rubber Wood	Needs very careful sanding Short fibers difficult to cut off. Final sanding with paper 240 (not coarser) -requires cutting material	Latex contents combined with a very deep pore tend to produce blotches round the pore. Specially formulated stains needed Severe grain raising over short hair fibres	Needs three coatings to secure an even surface The first coating must be with a low solids sealer to secure a good flow into the pore.	Faint reddish colour which disappears with exposure to UV-light
Beech/Birch Maple Poplar	Good sanding properties Final sanding with paper 180	Fairly good staining properties Whirls can produce an uneven appearance. Little grain raising.	Two coatings sufficient to produce a smooth surface.	
White Oak	Good sanding properties Final sanding with paper 180	Good staining properties. Tannin contents can produce white pores Little fibre raising	Two coats sufficient to produce an even appearance Often discolouration with water based products	
Red Oak American	Good sanding properties Final sanding with paper 180	Good staining properties The very deep pore makes it difficult to produce a good grain definition Little grain raising.	Three coats needed to produce a fairly smooth surface First coat must be with low solids to give a good pore sealing.	Filler/ glaze can enhance the grain definition.
Pine	Can be quite resinous and easily attracts dirt Final sanding with paper 180 The paper must be checked often for resin build-up	Very good staining properties Chinese pine very different from European-stain formulations need adjustments Little grain raising.	Two coats sufficient to produce a smooth surface Special products may be needed to hold back the resinous contents	Soft, easily dents Turns yellow

compounds, called radicals. These trigger a very fast cross-linking reaction between the binders in the coating.

By substituting peroxide hardener and cobalt in the polyester-finished products the curing time is reduced to 30 seconds. Today acrylic-based UV finishes are almost completely dominating the market, with their less harmful reactive diluents and even faster curing of less than 1 second!

For both types the solids is usually 100% and applied by roller: 15g/m² gives the same filling as 100g/m² applied by spray. There is little or no wastage. Even if more expensive, the final cost per square metre using UV finish is very attractive.

Generally the UV curing products have excellent resistance and wearability, and worldwide they have become a must for parquet and flooring producers. The advantages of UV coatings are obvious to Europe, which has a tradition for flat line application and meetings its demand for low

PU products are not suited for high-speed flat-line application. Its short pot-life (typically 4 hours) also takes a well-organized finishing operation. The dry film is almost insoluble and repair work is very difficult. Moreover, good quality hardeners with little tendency to yellowing are comparatively expensive.

Several countries (such as Scandinavia and the UK) have very strict regulations in connection with the application of PU products and hardeners because they contain (minute quantities of) free isocyanate (TDI) which is an allergen and suspected carcinogen.

UV finishes (UV)

Ultra-Violet finishes dry through radiation. A photo initiator (PI) is incorporated with the binders and, when exposed to UV light, the PI forms extremely reactive, chemical



solvent emission.

Even though the monomers (diluent) used in the acrylic UV are not volatile the product must still be handled with care. Monomers and PIs are classified as skin irritants, and skin and eye contact must be avoided by using safety goggles and rubber gloves.

For the same reason UV products must generally not be applied by spray, unless special precautions are taken. Generally speaking UV coatings are meant for roller coating applications. Moreover, UV finishes are generally transparent, because pigment tends to block for a full cure of the film.

Polyester finishes (PE)

PE finishes are based on unsaturated polyesters and reactive diluents, usually styrene. The coating can be either two- or three-component. In a three-component system a cobalt

activator and a peroxide hardener is added before use. In a two-component system the supplier has added a cobalt activator.

Most PE coatings are 100% solids, since the reactive diluents become a part of the cured coating. The curing is fast, given the high solids content, but dust pick-up is a problem. Also, its pot life is short (5-25 minutes), which means that 2-pack spray equipment has to be used for industrial application.

Its film properties are excellent, there is good chemical resistance and a very hard surface with good rubbing and polishing abilities. But special care must be taken when handling the peroxide catalyst, which is aggressive to the skin. Furthermore the peroxide hardener and cobalt must never be mixed directly, as the mixture can be explosive. The main use of PE products

is found in Italy for high-gloss finishes mainly on flat panels.

— The writer is Country Sales Manager for AkzoNobel's wood finishes and adhesives in India. The views expressed in the article are his own, and do not necessarily represent those of his organization.

AkzoNobel is the largest global paints and coatings company and a major producer of specialty chemicals. Based out of the Netherlands, it is a Global Fortune 500 company. The worth of its coatings have been proven time and again by OEM manufacturers throughout the Asia-Pacific region, including China, India, Indonesia, Malaysia, Singapore, Thailand and Vietnam.

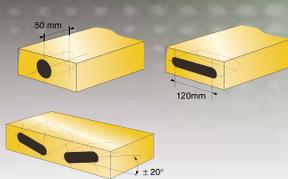


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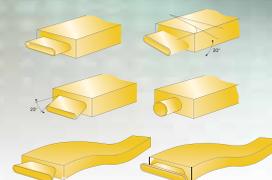
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Fevicol Adhesive Solutions for Woodworking Applications



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

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A way out of the woods

Export-dependent Italian wood machinery manufacturers are on their way to recovery



Italians take pride in the style, design and technology of their woodworking machines.

Among the two outstanding characteristics of the Italian woodworking machinery manufacturing sector, one is the pride it takes in the 'Made in Italy' brand, which it earned through its penchant for stylish design, good material and refined manufacturing processes that evolved over centuries of machine-building and automation.

The other is its strong propensity for and dependence on exports, with 78% of the total production destined for foreign markets. The Italian industry comprises of 270-odd companies, employs 9,000 workers, and generated Euro 1.4 billion in 2013, accounting for 15% of global production.

That makes Italy the world's second-largest supplier of woodworking technology, after Germany. However, after the global economic crisis of 2009, Italy has been beset with a rising number of issues that have affected its exports in the woodworking sector: slow economic recovery, rising unemployment, sagging order books

and consequent scaling down of production.

Like most of the Western world, Italy is presently putting into place a strategy to recover from the economic crisis that gripped global markets. According to Mr. Dario Corbetta, Director of Acimall, there are major challenges, including the increasing diffusion of lean production, a key factor to meet the demand for custom products, small batches and a shorter and shorter time-to-market from concept to sales.

New Strategy

Italians are now looking to better exploitation of their forest resources, employment of even newer technology tools to help achieve better results, as well as wood recycling. This process requires a reorganization of production lines; hence a partnership with technology suppliers.

Acimall is an association of more than 180 Italian woodworking machinery and tools manufacturers, representing more than 70% of the industry in terms of employees and turnover.

Promoting the knowledge of Italian technology all over the world and providing its associates with qualified assistance on key business issues are its aims.

Among the important activities carried out by Acimall are the organization of the biennial exhibition, Xylexpo, and the publication of magazines *Xylon* and Italian *Woodtech*. Xylexpo is one of the world's leading events dedicated to woodworking technologies for the last four decades.

Considering the number of companies and the sector's turnover, there are three major industrial centres, located in Lombardy, Veneto and Emilia-Romagna. The SCM Group in Rimini has for long reaffirmed its role as top Italian company by sales revenues (2012 turnover of Euro 280 million), followed by Biesse SpA in Pesaro.

As many as 47 companies recorded a 2012 turnover of under Euro 100 million, confirming once again that Italy's domestic industrial system is made of small and medium enterprises.



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for woodworking technology
and components for
the furniture industry**

**May, 13-17, 2014
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Among the top woodworking machine and tools manufacturers in Italy are the SCM Group, Biesse, Cefla, CMS, Freud Produzioni, Imal-PAL, Costa Levigatrici, Cassioli, Griggio, Paolino Bacci, Ormamacchine, Coral, Sorbini, IMEAS, Bre. Ma. Brenna Macc., Italpresse, Makor, Centauro, Primultini, Vitap Costruzioni Mecc., Putsch Meniconi, Imas Aeromeccanica, CMA Robotics and Giardina Finishing.

Among known manufacturers of wood-based boards and panels are Friul Intagli Industries, Media Profili, Fantoni, Mauro Saviola, Frati Luigi, Cleaf, Industrie Valentini, Gruppo Trombini, Reni Ettore, Kronospan Italia, Novolegno, Invernizzi and Xilopan.

Wood-based furniture production is also big business in Italy. Natuzzi, Chateau d'Ax, Scavolini, Calligaris, Poliform, Veneta Cucine, Poltrona Frau, Santarossa, Stosa, Mobilturi, Minotti and Marinelli Cucine are among the better known names.

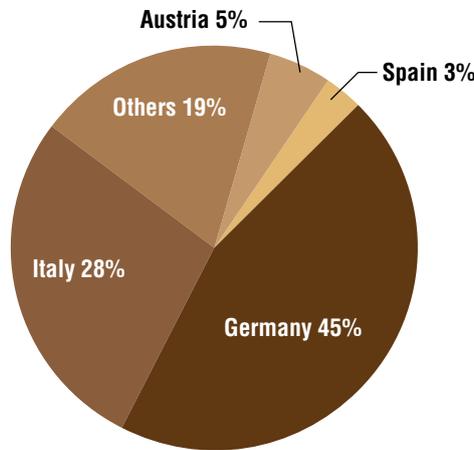
Road to Recovery

The Italian Institute for Statistics places the value of the country's 2012 exports of woodworking machinery (portable machinery not included) at Euro 1,153 million, which is 3.7% less than the corresponding figure for 2011.

The European Union has traditionally been the main outlet for Italian exports of wood processing machines and tools, which stood at Euro 525 million in 2012, down 5% from the previous year. The percentage out of total Italian exports was 45.5%. The top destinations were Germany and France.

Among non-EU countries, Italy exported Euro 210 million worth of equipment, a slight increase compared to 2011. The top market in this category is Russia, followed by East European (formerly USSR) nations.

Exports to countries under the North American Free Trade Agreement conformed to the positive trend of 2011, which saw an increase of



 Woodworking industry turnover (2012) in Europe

14% (Euro 95 million). Here the two dominant markets are the United States and Brazil.

China (including Hong Kong) and Australia are considered long-term, stable markets. Italy's exports to the African continent showed a 21% decline in exports (2011-12). South Africa, Algeria and Tunisia are the major importers, apart from Gabon and Libya.

'Emerging' Markets

In 2012 the gross domestic product (GDP) of the world economy grew by 3.2%. In the European Union this growth was equal to 0.2%. The economies of "emerging" countries, on the other hand, recorded an increase in national wealth of over 5% annually.

While the US is steadily recovering from the 2009 economic crisis, Brazil represented an emerging market par excellence: in 2012, Euro 61 million worth of Italian products were exported, more than double the trade in 2008!

In Asia, South Korea and Malaysia continue to be stable markets. And although Italian exports to Asia remained stationary during 2012 (Euro 150 million) the rapid recovery of "emerging economies" – notably India and the United Arab Emirates – is sure to keep Italian machinery manufacturers enthused in the years to come. However, the peak demand from India was in the boom of 2010, when Italian exports touched Euro 30 million.

– With inputs from Acimall. 



 Partnerships with technology suppliers is a must to overcome the economic downturn.

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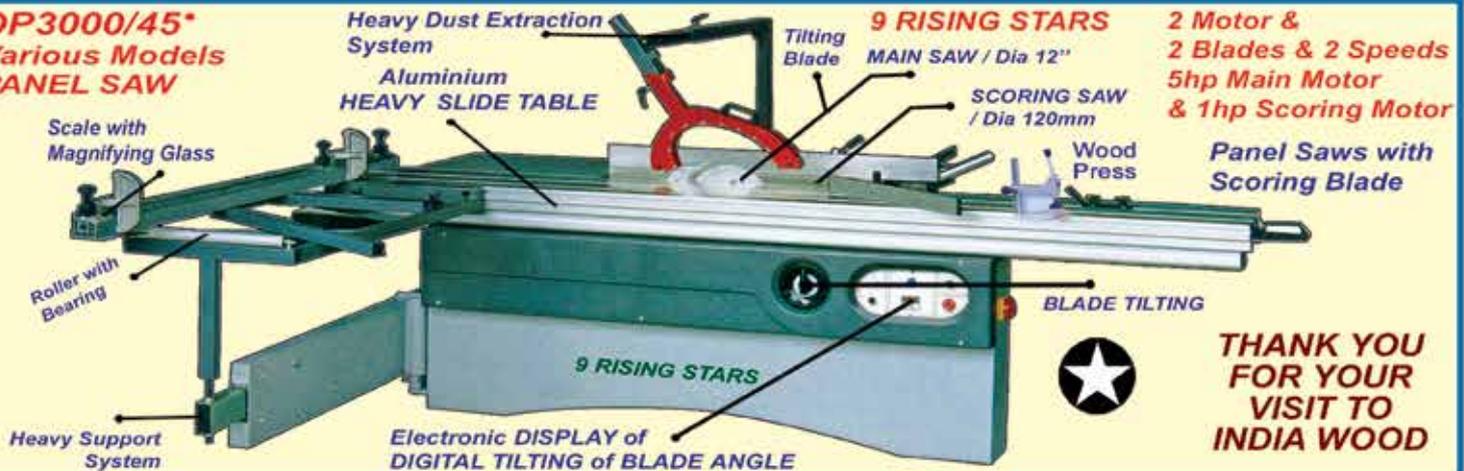
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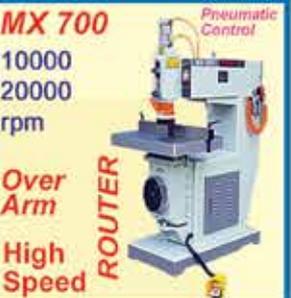
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Another record set at 33,000+ visitors



They came, they saw, they conquered! That stands true for exhibitors as well as visitors, at IndiaWood 2014, which concluded on 25 February, at the Bangalore International Exhibition Centre. The participation by 580 exhibitors (49% of who were from foreign shores, the remaining Indian companies) in the eighth edition of South Asia's largest woodworking trade show indicates not only their trust in IndiaWood, but also the resilience and versatility of the woodworking industry on the sub-continent.

The visitors comprised of manufacturers, traders, retailers, builders, architects, interior designers, contractors, government agencies, experts and woodworking enthusiasts – and they converged on Bangalore from all over India, and beyond.

Eighth edition of premier woodworking show indicates healthy market sentiment in India

The final count of more than 33,000 footfalls at the five-day woodworking exhibition also sends a resounding signal: the global economy may be down and out, but recovery and growth (at least in India) are just round the corner!

Their enthusiasm and curiosity was best appreciated by companies from the 25 countries (including India) that exhibited their products at IndiaWood: from logs and lumber, machinery and tools, to hardware and software, adhesives and coatings, design and innovation.

The exhibitors came from Austria, Belgium, Canada, China, France,

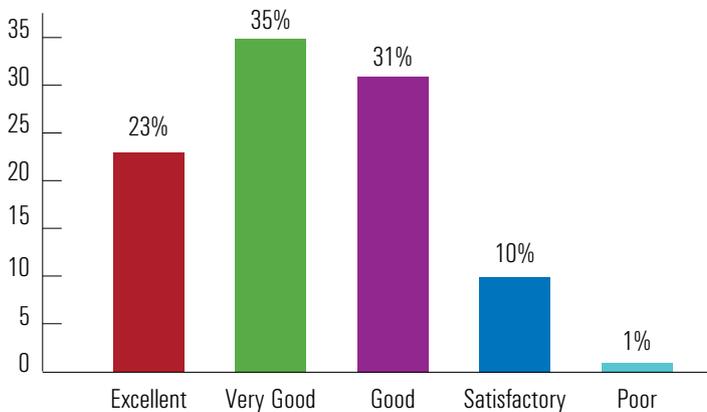
Germany, Greece, Indonesia, Italy, Korea, Malaysia, Philippines, Poland, Romania, Singapore, Spain, Sri Lanka, Taiwan, Thailand, Turkey, UAE, United Kingdom, USA and Vietnam.

The 10 country pavilions were from Canada, China, France, Germany, Italy, Malaysia, Sri Lanka, Taiwan, Turkey and the US, who made use of the entire 38,000 square metres of space at the venue.

Exhibitor reaction to India's premier bi-annual woodworking trade show was also encouraging – an overwhelming majority (66%) felt the show was 'good/ very good' and another 23% rated it as 'excellent'.



What is your overall rating of IW 2014?

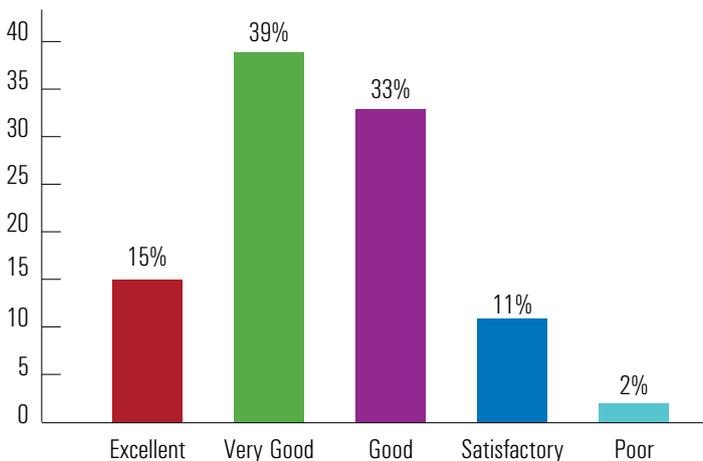


In terms of commercial success, 13% of exhibitors felt it was excellent, while another huge majority (71%) rated it as good/ very good. Similarly, 72% exhibitors were happy with the visitor numbers and profiles, while another 15% were impressed beyond that!

According to Mr. Vikram Sivaraman, Assistant Manager (Marketing) with Biesse SpA, it was the best event to network with people in the woodworking industry. Said Mr. Prateek Kar of Henkel Adhesive Technologies, "It has been a great platform to improve on the potential customer base."

Mr. Bobby Ruban, Country Manager for Wood-Mizer Asia, agreed on that count, saying: "IndiaWood is a very good platform for finding new customers."

How would you rate the quality & number of visitors at your stand ?



How do you rate the commercial success of IW 2014 till now ?



Lucky Winners

IndiaWood 2014 also saw enthusiastic participation from exhibitors and visitors alike in a lucky draw sponsored by Jungle Lodges and Resorts, a Karnataka government tourism department undertaking.

The two grand prizes

(*journey on the Golden Chariot tourism train*) went to Mr. K.V. Venkatesh Babu (L) and Mr. Suresh Patel (R), both from Bangalore.



The two first prizes

(*2-night, 3-day stay at Jungle Lodges*) were bagged by Mr. Syed Rasheed of Hyderabad and Mr. Harish Kumar of Mumbai.

The two second prizes

(*1-night, 2-day stay at Jungle Lodges*) went to Mr. Deepak Patel of Indore and Mr. C. Sateesh of Bangalore.



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Mr. Ambrogio Delachi
President, Eumabois

At IndiaWood, India looks at its future

requested by a vast majority of operators, but also paid attention to the leading edge of the Italian industry, committed to the processing of wood and wood-based materials. This is clearly a country that is approaching new technology and looking into what might seem to be its future.

During my days in Bangalore, I had a clear feeling I was attending a dynamic trade fair, growing up strong, with significant dimensions. All big international technology vendors were present and very active. From my conversations and networking with them, I noticed widespread satisfaction for the results of the exhibition and the quality of visitors, a tangible sign of the success of the event.

Let me add that I saw a significant number of companies offering materials, semi-finished components and supplies for the furniture

industry. This is an important integration that confirms what I have just said, namely that IndiaWood is an exhaustive review, a unique meeting venue in the huge Indian market.

This country is clearly developing at high speed. The exhibition is a hotbed of activity, well organized, with bright prospects for the future. This is great satisfaction for Eumabois, as co-owners of the brand, and we can only express our full satisfaction for the great job done by organizers.

I reaffirm the positive feelings I had during my days in India, supported by the presence of all major European manufacturers, attending with their own stands and an adequate range of machines representing the leadership of 'made in Europe' technology also in this area.

– Mr. Ambrogio Delachi
President, Eumabois

IndiaWood 2014 was definitely a positive exhibition, with a suitable range of products not only for the Indian market, but also for companies searching for solutions with higher automation levels and more technological contents.

In other words, an exhibition that not only offered conventional solutions,

Towards responsible forestry

For Bureau Veritas Certification India, IndiaWood 2014 was an opportunity to meet and interact with different stakeholders working in wood-based industries across the globe. The interactions and seminars conducted during the show helped create awareness towards statutory and regulatory requirements for sustainable management of forestry resources, standardized processes and certifications.

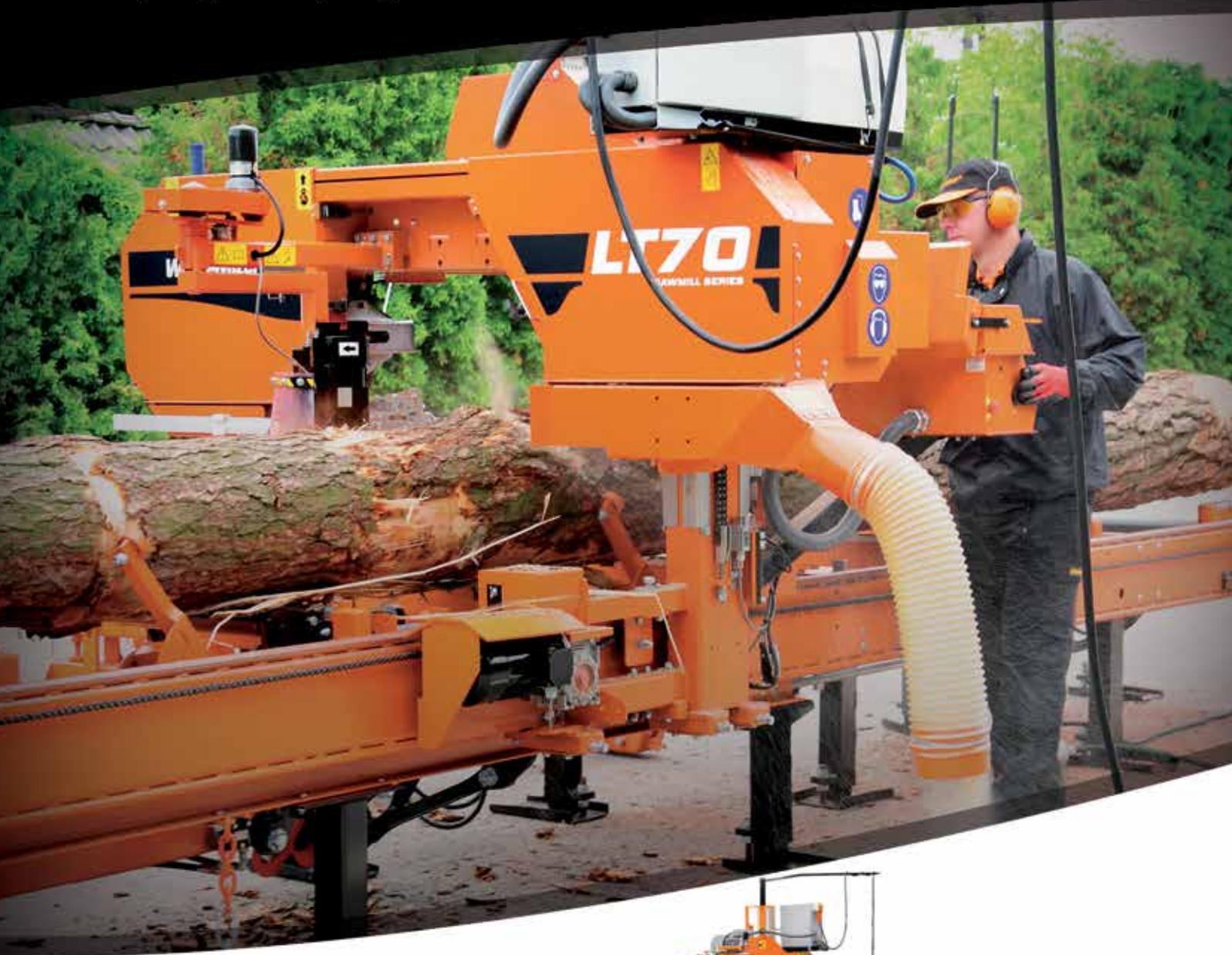
Bureau Veritas Certification has

launched a dedicated due diligence solution (DDS) for the forest, pulp and paper, packaging and wood industries as illegal logging and deforestation is a global problem resulting in negative environmental, social and economic impacts. Legal frameworks such as European Union Timber Regulation (EUTR) Act, Lacey Act, etc. not only require wood exporting countries but also final consumers to assume responsibility for the forests of the world.

The aim is to eradicate illegal wood products on the European market: similar to measures taken in the US and Australia. Apart from regulatory requirements, Bureau Veritas also provides solutions for different certification schemes such as Forestry Stewardship Council (FSC), Programme for Endorsement of Forest Certification (PEFC) using environmentally suitable, socially acceptable and economically viable management of traceability tools.

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Jai enclave 'most happening' place



The Jai family of corporate leaders and sales managers congregated to initiate celebrations of 50 years of service to the Indian woodworking industry.

IndiaWood 2014 was a significant event for Jai Industries as it was the starting point of its "50 years celebration" campaign. Jai had the biggest stall with largest floor space at this edition of IndiaWood. It was divided in three sections that displayed three different ranges of machinery: the Jai-Modula range of panel processing machinery; the Jai-WudPro range of solid wood machinery; and an exclusive stall for Europe's panel and woodwork machinery giant, the SCM Group.

The organizers of IndiaWood acknowledged Jai's stature by honouring the company's directors as special invitees to the opening ceremony.

All sections at the Jai enclave remained populated with visitors, and the company's technical and commercial experts were available to guide them in the selection of machines according to their requirements and budgets. Jai's dealers and distributors from all over India were also present.

This year was special and Jai celebrated it with the highest

number of new machine launches at IndiaWood. The WudPro range got enhanced with the addition of a whole new premium quality "Prima" series. A lot of existing machines were redesigned and improved, making

this segment the best for the Indian woodworking industry.

The Modula range saw the largest number of launches and new improved models to meet the fast expanding market of panel work in India. The first Indian company to manufacture Euro-precision machines in-house, Jai has termed it the 'Pride of India' range.

The Jai-SCM range also saw several new European machines introduced to Indian customers, particularly in the solid wood segment. Combined with Jai Industries' record of 3,50,000 machine installations, Jai got the highest number of orders and inquiries at IndiaWood 2014.

As one of the Managing Directors, Mr. Nirav Shah said, "Jai laid a very strong foundation 50 years ago. Our core vision is to perform with spirit of excellence in everything we do, with focus on world-class quality and value-for-money deals for our customers."



The Jai Industries enclave at IndiaWood 2014 was the largest and most visited.



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Exploring trees for the wood

As part of its ongoing efforts to educate people about woodworking, the Bangalore-based Leitz Tooling Systems India Pvt. Ltd. held a video presentation specially for students who visited IndiaWood 2014.

The video presentation started with basics of tree species, their transformation to wood and wood-derived products like plywood, particle boards, medium density fibre boards, pre-laminated boards, etc.

Mr. Chandra Mohan, Manager (Training) for Leitz Tooling Systems, also dwelt on woodworking machinery and various processes like sawing, shaping and boring, and the types of hardware fittings required for them.

A kit containing samples of wood, different types of panels, edge banding samples and educational literature was also distributed to all the students.



Mr. Chandra Mohan, Manager-Training, Leitz Tooling Systems (seated, fourth from left), along with a batch of college students, at IndiaWood 2014.

The educational programme was devised by Mr. Ramu Ramakrishnan ("Ramu Sir"), the Executive Director of Leitz Tooling Systems, and a pioneer of the woodworking industry in India.

'Taare zameen par'



Children delight at being presented wooden toys and balloons at the Leitz stall during IndiaWood.

As part of its corporate social responsibility initiative, Leitz Tooling Systems Pvt. Ltd., the Bangalore-based subsidiary of the German manufacturer, hosted 18 orphans from the Samrakshana Charitable Trust in Kengeri Satellite Town outside Bangalore.

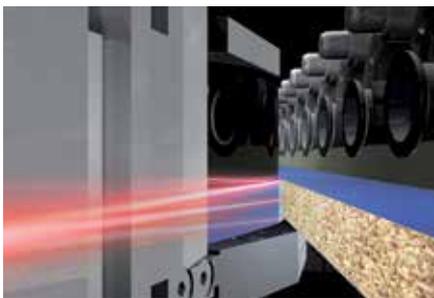
The children's enthusiasm and delight had to be seen to be believed! They were later presented with wooden educational and recreational toys made by the Chennapatna woodworking fraternity.

Leitz also honoured some traditional craftspersons from Chennapatna, the town near Bangalore famed for its hand-made wooden toys and decorative articles.

Among the dignitaries present for the function at IndiaWood 2014 were (back row) Mr. Ramu Ramakrishnan, Mr. Edmund Mahler (from Leitz-Germany), Mr. Ajithan N., Ms. Gouri Ramakrishnan and other dignitaries.



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Of doors and finishes, wood & marketing



Aligning Endorsement

Mr. Vivin Agarwal, Chairman of the governing council of SDIC, Bangalore, India.

Marking out a proactive marketing plan, the speaker said product or brand endorsement aimed at getting slices of fresh business opportunities, without disturbing existing line of business; introducing fresh products to provide sustainability in production activity; and adding profits through ideas and exclusivity.

Endorsement marketing, he said, could be personal (non-incentive based), celebrity (incentive-based), professional or syndicate (industry-wide representation or government agency). Endorsement themes need to be timeless, adoptive, productive, progressive and sustainable.

Generally celebrities, sportspersons, professionals, academicians or



social workers are employed for endorsement. But in the woodworking industry, builders, architects and interior designers would do as well, if not better, Mr. Agarwal noted.

“The important thing is the need to align the endorser, customer, product concept and its manufacturing,” the speaker said, and quoted the classic example of US multi-billionaire, Donald Trump, who himself became a brand over decades of hard work and intelligent marketing.

Similarly, furniture manufacturers, cabinet and kitchen makers, board and panel processors, door and shutter manufacturers could benefit from endorsements from prominent builders and developers, architects and interior designers.

Better ways to make doors

Mr. Hubertus Flottoto, Director, Sauerlander Spanplatten GmbH, Germany.

Mr. Flottoto first spoke about how India required 1,00,000 doors a year to satisfy its housing sector demand. To meet the current rate of use of wood residue in timber-filled flush doors, India would have to sacrifice 12 lakh trees annually, he reckoned.

Noting that timber-filled flush doors had been replaced by modern technologies all over the world, he highlighted the fact that market nowadays expect a door to perform: it should be high impact-resistant; have high fire performance and effectively reduce sound pollution; yet should be low-weight, environment-friendly and come in a beautiful finish to boot!

Modern technologies and processes offer standardisation throughout the full chain-of-custody, modern industrial manufacturing, indoor and



outdoor safety, environmental control and certified modern materials. Such standardisation, he added, has several benefits for the architect, producer and customer.

Drawing attention to tubular core doors, Mr. Flottoto dwelt on the advantages of extruded board technology, that resulted in low weight, high stability, impact resistance, precision in thickness, greater fire performance and flexibility.

In 2013, Sauerlander Spanplatten produced 6,20,000 cubic metres of tubular and solid boards at its 37 manufacturing lines in Arnsberg and Gotha factories (Germany), exported to 77 countries worldwide and recorded sales of Euro 89 million.

Wood species for versatility, aesthetics and ease of work

Dr. Brian Leslie, Technical Advisor (Wood Products), Forestry Innovation Consulting-India.

The speaker introduced plantation forestry in British Columbia (Canada), and how FII is maintaining existing and opening up new markets for B.C. forest products, particularly in the Asia-Pacific region. The focus, he said, is on promoting the environmental benefits of wood in structural and non-structural applications and greater use of renewable wood products.

Allaying apprehensions in the minds

of potential consumers, he referred to the strict compliance with laws governing government and private plantations for sustainable forestry. Among them, he stressed on the fact that forests in British Columbia are owned by the government; that only less than 1% of forests are harvested annually; that all trees that are cut are replaced (some 200 million per year); and that the government ensures species diversity and wildlife conservation.

Seeking to allay myths and misconceptions about the preponderance of tropical teak in woodworking, Dr. Leslie stated that:

- Douglas Fir and Western Hemlock

- (conifers) are stronger than teak;
- Yellow Cedar, Douglas Fir and Western Red Cedar resist termites as good as teak;
- Western Hemlock, Douglas Fir, Yellow Cedar, Spruce-Pine-Fir and Western Red Cedar are superior to teak in their working and finishing qualities;
- B.C. conifers can be used as a substitutes for teak in joinery and millwork applications for doors, windows and furniture;
- Their density, availability, sustainability, (relatively) constant pricing and assurance of quality make B.C. conifers an attractive substitute for teak.

Eco-friendly coatings & finishes

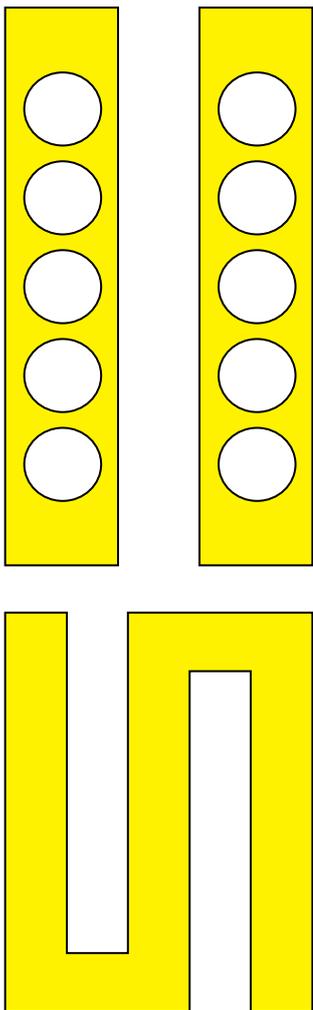
Mr. Alessandro Bascelli, Export Manager, ICA Group, Italy.

Mr. Bascelli spoke about PU, polyester and water-based products for rollers, automatic spray machines, curtain coater; along with UV products for doors and kitchens.

After enlightening the audience on LIFE mark and low environment impact products, he dwelt on special-effect products of his company (Urban Matter), and highlighted his company profile and Indian organization.



Need to turn over to new Green door specifications



Sauerland Spanplatte

India is a unique country which utilizes timber batten infill in the flush and skin doors; a primitive process, discarded globally many decades back. Recently a news item pointed that unless green house gas emissions are reduced, temperatures in Mumbai will be at their historical extreme by year 2034. Other Indian cities are not far behind.

We must say goodbye to our obsession for timber filled doors. You may be aware that the concept of recycling wood scrap as infill in doors is no more a reality as the saw mill operations are getting smaller with reduction of timber availability. On the other hand there is an explosion of construction due the rise in housing needs all over India.

More than 12 lakh trees every year are required to feed the infill needs of over 100 lakh doors each year. Realizing, the bare facts and non-sustainable practices, other countries have already switched to eco-friendly infill boards like tubular boards, which are 100% made from recycled wood waste. We should also change... It is too late already.

Tubular infill boards are an ECO-FRIENDLY AND GREEN PRODUCT INITIATIVE, replacing 80% of timber used internally as door infill. These filler cores are already in use in 65 countries worldwide for the last 63 years. This dramatically improves

the performance of the door in the following manner:



- 1. Sound Insulation:**
The construction leads to almost 50% reduction in sound passed via door, compared to timber batten filled door.



- 2. Fire Resistance:**
The board being produced by extrusion method in the particle direction is predominantly vertical to the surface which, in case of accidental exposure to fire, provides a low rate of burning than a batten filled door or a flat-pressed particleboard.



- 3. Construction:**
The density in solid areas i.e. walls of board is high (520 kg/m³). Further, the arch principle – as in the case of construction of dams or bridges – gives high impact resistance.





4. Thickness Tolerance:
Critical thickness tolerance of +/-0.1mm in the board gets rid of “telegraphing” as the calibrated board gives a beautiful surface finish and a good bond between the skin and the board.





5. Weight Reduction:
Tubular boards give value weight to the door, making it the ideal choice for high-rise buildings, besides providing better acoustical and safer doors.




8. PEFC Certified: Save the tree for reducing climate change. All our products are certified with PEFC.



9. Swelling & Thickness:
Almost zero thickness swelling in Sauerland board, compared to flat-pressed board, which expands in thickness, causing stress on skin bonding and in cases even rupturing the door.



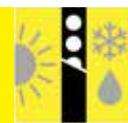

6. E-1 Emission:
The only filler board available in India meeting the formaldehyde emission norm, making it suitable for indoor use.



Few in India know that Sauerland infill boards have been in use in the door manufacturing industry for the last 63 years as a timber substitute for infill material. Having withstood the test of time over six decades, and in use in more than 65 countries, it means it has global acceptance. It is reasonable to say that it is much older in use than the timber batten filling that is common in India in the flush door industry.



Architects and builders wanting to change to greener building constructions may contact Sleek Boards India LLP (Tel: +91 20-25463471/ 25421021 or email sleekboards@gmail.com, or visit www.sauerland-spanplatte.de).

7. Straightness:
The tubular structure also helps the door to maintain straightness under climatic variations.



Urban matter & soul: contemporary style

The world of **ICA Group** continually evolves, with an unerring focus on the latest design trends and on the requirements flagged up by designers and architects. For this reason, the R&D laboratory has directed its energies to the development of wood coatings with a distinctly 'metropolitan flavour'.

The 'Urban Matter' range – composed of high-impact, material-like effects – embodies a style that is at once contemporary, refined, realistic and 'imperfect' (due to the deliberate unevenness of the coated surface). It is an everyday inspired style.

Using this range, it is possible to produce surfaces with cement, corten and steel effects, retaining the rough appearance of the material being simulated, while also offering the warmth to the touch that only wood can provide.

The Urban Matter range can be deployed for a plethora of creative uses, giving the imagination free rein, with the potential to come up with an infinite variety of ever-changing and unique effects.

Cement Effect

An industrial look and powdery colours characterize the cement-effect finish. The range encompasses three gray tones, which are the fruit of ICA Group's research into the latest trends in contemporary interior design.

The effect is produced through a coating cycle (on MDF panels or melamine paper) that combines the use of the water-based base coat, mixed using a spatula, with the special effect Vellumatt, in three different shades.

Spray and spatula application:

- An effect that – in tactile and aesthetic terms – is comparable to cement.



- Unique effects can be achieved by mixing the water-based base coat with a spatula.
- Very smooth to the touch.
- Good chemical and physical resistance.

Corten Effect

This effect embodies a contemporary style that is even more 'lived-in', with an uneven surface characterized by



light and dark nuances that reproduce the deep coloration of natural Corten steel.

The effect is produced through a coating cycle, on MDF panels or melamine paper, that combines the matt black base coat with water-based ageing agents, flower yellow and oxide red, with the colour movement being generated by means of a jet of compressed air on the coated surface.

Spray application:

- An effect that – in tactile and aesthetic terms – is comparable to Corten steel.
- Creation of unique effects by adjusting the following variables: compressed-air jet, colour tone of the polyurethane matt base and of the aging agents.
- Excellent resistance to light.
- The warmth of wood and the stability of the effect over time, with respect to corten steel.

Steel Effect

Metallic, oxidized and coloured industrial styling with an elegant, understated character. The range offers two different interpretations of natural steel: 'foil' with lighter, brighter tones, and 'oxidized' with warmer tones and a more lived-in appearance, available in eight different nuances selected on the basis of an analysis of current trends in the world of design.

The effect is produced through a coating cycle, on MDF panels or melamine paper, that combines the use of gloss lacquer with the steel-effect metallic coating. The light scratches provide the minute detail that allows the surface to simulate steel even more effectively and, accentuated by the reflection of the light, generate undertones and a sense of movement.



Spray application:

- Aesthetic effect similar to the look of steel.
- Offers the warmth that only wood can provide.
- Creation of unique effects by adjusting variables like colour tone of the gloss polyurethane base, opacity, coloration (if applicable) of the steel-effect coating and of the final top coat.
- Suitable for application to three-dimensional objects.
- Good chemical and physical resistance.
- Excellent resistance to light.



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A lot can be said about a person from his/her home. A home is not merely a place to dwell, it goes beyond the realms of shelter. A home is where the heart is, it is where the prodigal son returns, it is where the stormiest days are enjoyed, it is where memories are lived.

To reflect this philosophy Associate strives day in and day out to craft products that represent every customer. Associate proudly claims that every customer's dream décor is hidden in its wide range of products and innovations. At IndiaWood 2014, this claim was made the theme of the exhibition stall titled 'Our Products. Your Statement'.

IndiaWood saw the launch of 22 never-seen-before, 100% European designs on melamine faced chipboards (MFCs). The availability of such choices in HMR, E0, E1 make them the perfect choice for any type of application – ranging from kitchens, wardrobes and cabinets to partitions as well. Two noteworthy additions were the textile designs and availability of horizontals: both of

which are firsts for the MFC industry in India.

Associate unveiled two incredible finishes – raw veneer and matrix – that left a lasting impression on the visitors. Adding to this was the innovation of providing textures in their post-forming range of laminates, a feat made possible by the

remarkable European technology at the Associate Décor plant.

As part of its customer relationship exercise, Associate organized a one-of-a-kind site visit to its Malur plant, touted to be on par with international standards. Among the trade and designing niche that visited the stall were budding architecture students, who discovered a whole new realm of interior design décor and substrate that left them awestruck.

The star of the show was undoubtedly the central installation of the newest addition to Associate's rapidly expanding bouquet of masterpieces: Structured Surfaces. The synchronized beauty of the design and the texture enhances the aesthetic appeal of the boards manifold. Such precision and brilliance is something that the industry has never before experienced in India.

The availability of such a world-class product in India gives Kitchen and Wardrobe manufacturers who have been importing these boards a fitting alternative that delivers value for money. The visitors also got a brilliant display of some of the outstanding features of Associate products at the live demo. The booth was indeed a fitting statement from one of India's largest particleboard and MFC manufacturers.



The Associate Décor stall at IndiaWood was a star attraction.

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Sauerland introduces fire containment doors to Indian market

Sauerland has been active in the Indian door industry since 2008 and has introduced the tubular door concept, enriched with their vast experience for 63 years and spanning export to 65 countries.

This year Sauerland have scaled up the technology to introduce fire containment cores in India for door sets passing the 30-minute and 60-minute rating using Sauerland cores as per BS 476: Part 22: 1987, or as per IS 3614 Part 2 (1992).

Sauerland displayed a burnt door at its stall, attracting heavy rush from builders and architects.

The specialty of fabricating fire containment door with Sauerland core is that it eliminates the use of any inorganic material in the construction like gypsum board, cement board

or calcium silicate or fiberglass, making the door light weight and 100% recyclable. With additions of certain accessories one can make the door fire safe; smoke arrestor as well as sound reducing up to 38 dB.

For the first time in India builders and architects can now avail a triple acting door set which provides for the much necessary fire protection of 60 minutes, clubbed with sound reduction of 34dB, along with smoke containment technology.

Sauerland cores have very low formaldehyde level

of E1, which means they are safe for internal use in residential buildings. These are the most light-weight doors, highly performance oriented for the 60-minute fire-rated door category and are now available in India.



Crash course on interiors management

It is estimated that the profitability of any interiors related enterprise can be increased by 20% if it is managed by trained managerial human resources. The introduction by Saavin Design Innovations & Collaborative (SDIC) of a six-month course to train interior manager for the industry was welcomed by visitors to IndiaWood 2014. It also received several suggestions of training staff of existing enterprises.

Keeping in mind the requirements of the industry, SDIC has put in place

a 25-hour programme to develop the entrepreneurship skills of the managers employed by interiors related enterprises. It will engage and train the existing employees to be independent decision makers and contributors to the success of the enterprise.

SDIC Design Management School is a collaboration of six different segments of the interior industry. It will run the programme from 22 to 24 May this year at its premises in Hubtown, Ulsoor, Bangalore. Accommodation

for outstation candidates will be organized.

The programme involves training on people and management, along with acquiring personality and entrepreneurial skills; learning technology trends, design and technology alignment, waste management mantra and selection parameters of consumables; theory classes on finding your audience and endorsement alignment, and identifying product design, markets and selling techniques.

For details, write to SDIC Design Management School, Hubtown, Opposite RBANM Grounds, A.M. Road, Ulsoor, Bangalore-560042; or email sdic.blr@gmail.com.

Trust of India, manufactured in Austria!

The Felder stall at IndiaWood witnessed a large number of business visitors with plans for new enterprise, expansion plans and those with creative ideas in woodworking. Along with Felder's highly successful range of basic woodworking machines, this year Felder Group India (FGI) presented the very popular Kappa-400 panel saw from the Format4 range of machines.

It is equipped with a lubricant tank and spraying unit to enable cutting of aluminium and non-ferrous materials.

It was fascinating for the visitors to the stall to see the live demonstration on the Kappa-400, where sections of aluminium were processed right in front of them and the results were astonishing.

The Felder K700S, the heroic panel saw, was also presented with its transformed version which had some additional features.

Felder's technological innovation, the spiral knife cutter block, held the visitors in awe. They experienced first-hand the flawless finishing

of processed wood, and the new technology ensured that the planer-thicknessers were always surrounded by its admirers. It is also low on maintenance and highly efficient, and has brought new dimensions to woodworking.

FGI was a pioneer in starting up with a showroom concept in India that provided demonstration for woodworking machines and gave the customers an opportunity to not only just listen about the machines but also see them in action.

In November 2013, FGI celebrated the opening of its state-of-the-art, fully air-conditioned new showroom at its headquarters in Borivali, Mumbai. The showroom also offers facilities for small store area, with easy availability of spare parts for local customer.

Automatic, labour-saving panel saw a hit

The recently concluded IndiaWood 2014 was a great success. Visitors and exhibitors achieved their goals and successfully concluded many business deals.

Altendorf exhibited three machines at their stand in the German Pavilion. One machine (WA-8T) was basic and entry-level. The other two machines (F-45 and WA-8X) had advanced features. The WA-8X model was of special interest to many visitors.

This machine includes a motorized rip fence and eye-level control panel. Because of these features the following are achieved:

- Accuracy up to 0.1 mm on rip fence setting dimension
- Increased productivity because the operator does not manually set the fence
- Reduction of manpower.



Potential customers preferred to discuss this machine as they understood the advantages, especially the reduction of labour and the quality and accuracy of cut.

Buyers were prepared to pay the difference in cost for the added features which improve the quality of their end product: furniture, kitchens, work stations, wardrobes, etc.

Even small start-ups appreciated the

concept indicating that, when they had the budget, they would purchase this machine. This is an indication that the industry is maturing and customers are more knowledgeable.

They are basing their decisions on rugged and proven, value-for-money machines from the Altendorf range, not necessarily on price alone.

Jai expands 'Pride of India' range

Jai Industries' 'Pride of India' range is the Euro-precision machinery range built in-house by the company. With these machines Jai enters the global league of world class manufacturers.

The **J-5100PRc.in** auto edge bander with pre-milling and round cornering and the **J-5100Rc.in** with round cornering come with advanced technology and highest features at unbeatable prices.

Highlights

- Sturdy built, heavy-duty machines to suit Indian working condition for precise application of edge banding material with round cornering



- High performance machine with feeding speed of 14 metres/minute gives more output; very easy to operate and nominal setting required during operation
- Robust feed chain and conveyor system with German gearbox (with long life synthetic lubricant) for effective pressure on small and big panels
- Specially designed glue tank which consumes less glue
- Rapid change-over switch for thin and thick edges
- Three edge banding pressure rollers actuated by pneumatic cylinders and gas spring give adequate pressure on edge for effective banding

- High-frequency Italian motors sliding on prismatic guide ways for perfect finishing with trouble-free performance
- All electronic and pneumatic parts are from well-known international brands Schneider and Pneumax (Italy)
- Easily accessible, user-friendly PLC touch-screen control panel positioned at machine in-feed for quick operations
- No setting required to change thin to thick PVC edge band
- Low maintenance machine, easily available cost-effective spares with best service support.

The pre-milling unit (applicable only for **J-5100PRc.in**) is an optimum unit with two high-frequency motors, for pre-milling panel edges. Individual pneumatic cylinder ensures perfect preparation of panel before gluing, makes the panel smooth for perfect joint line of the edge.

The **J-2102.in** (double head) and **J-2103.in** (triple head) multi-boring machines have horizontal and vertical heads that work simultaneously on the same setting in single operation. Horizontal head tilts from 0°-90°, meaning work as vertical head, so



both the head work in parallel. For vertical boring application, both heads work parallel vertically.

The **J-2103.in** semi-automatic boring machine is equipped with one horizontal and two rotating vertical boring heads (0-90°) with 21 spindles for executing holes in a line for wardrobe side processing. The two vertical heads can slide away on rolling guides from each other. They also rotate by 90°, giving more location positioning.



It comes with a digital counter for adjusting boring depth; an aluminum fence with four reference stops that slide on support rollers for smooth positioning; boring depth adjustment can be easy and quick setting of horizontal boring head; and an auxiliary support frame with the fence to give better solution for long panels with flip-over brackets.

The vacuum membrane press **J-1100.in** (compact) is for lamination with high quality, high production, and is a most suitable machine model for factories with space constraints.

It is 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 shape.

- Vacuum abnormality wrapping technology
- More efficient, stable and long life

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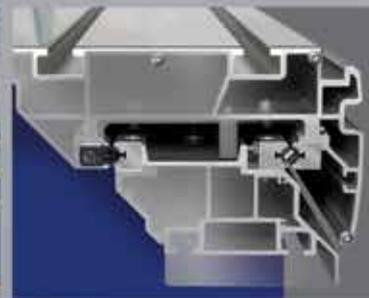
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- Silicon membrane sheet is standard scope of supply with the machine
- Motorized movement of heater hood for opening and closing
- Short pressing cycles.

In the Jai-SCM European panel and wood process machines range, Jai has introduced the **SI 400 Nova**, whose sliding table will never require adjustment due to its structure with arch-ground steel slide ways (SCM exclusive and patented solution) so it can carry loads four times higher than others.

It has maximum torsion rigidity and

total absence of vibration due to closed loop structure, which ensures perfect alignment of the blades during tilted and difficult cuts. It comes with the right spindle moulders for demanding craftsmen and carpenters.

It gives maximum stability and rigidity in every working condition, thanks to a big cast iron spindle moulder unit and a sturdy base in single-block steel. Great versatility with the spindle moulder with four speeds is available in fixed or tilting versions.

The **T 55W Elite S**, used for any type of machine profiling, contouring and tenoning, has an adjustable fence with micro metric adjustment, complete with vertical and horizontal process.

Flexible pallet line from Barton

During IndiaWood 2014 Barton introduced the new JBJ automatic pallet assembling line model, LCA. It is a flexible, reliable and affordable solution that allows the production of all type of pallets, both stringer or block pallets, with dimensions from 70x70cm up to 120x120cm in standard configuration.

All production phases are done in an automatic way controlled by means of a PLC. The core of this new concept for pallet manufacturers is the new automatic nailing station, Model JBJ-260. It nails up to 125 pallets per hour of up to nine boards per face.

It is equipped with two different board feeders to produce pallets with



boards of different widths. The nailing process is executed by seven nailing pistols.

The nailing line general configuration for each type of pallet is done by means of a touch screen located at the PLC, which admits up to 20 different

programs or type of pallets.

It has an installed electrical power of 30 kW (40 HP), needs 10 Bar pressure, can consume 560 litres of air per minute, and requires two men to operate.

**WOOD
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Glimpses of INDIAWOOD 2014





Thinking inside the box



MyBox is a pre-fabricated box constructed with low-maintenance Accoya and Medite Tricoya modified wood products, which protect the residential units from the harsh effects of the external environment and together create an excellent U-value rating and thermal performance.

The accommodation solution is assembled in a matter of days, and once constructed, is approved as a permanent building.

Mr. Magnus Ogard Meisal and Mr. Kristoffer Sorstronen fashioned the idea. Mr. Meisal said, "We wanted to build homes in a simplified way, similar to the way you might build with Lego, and shipping containers seems the obvious starting point."

Mr. Sorstronen added: "Accoya and Medite Tricoya are fantastic, high performance products to construct and clad the containers with, offering 50 years warranty for durability and stability. The impeccable environmental credentials and natural aesthetics of both products add to their credibility, making them the perfect and preferred materials to use in construction."

Two young Norwegian entrepreneurs have formed an innovative response to the demand for student accommodation in their country by transforming shipping containers into residential apartments, framed with Accoya wood and clad with Medite Tricoya MDF.

Accoya and Medite Tricoya are two of the most advanced wood products on the market today, using Accsys Technologies' proprietary acetylation

technology to deliver outstanding levels of performance, stability, durability.

This results in a non-toxic, attractive and cost-effective wood which matches or exceeds the properties of tropical hardwood. The Accoya wood frame and Medite Tricoya cladding panels for MyBox were supplied by Profftre, the official distributor of Accoya and Medite Tricoya in Norway.

Mr. Bryan Crennell, director of sales and marketing at Accsys Technologies, said: "Being innovative construction solutions themselves, Accoya and Medite Tricoya are ideal for use in creative projects. It is fantastic to see world-leading wood products being used in this unique way."

Accoya wood is supplied as rough sawn and planed wood in various sizes and grades. Finger-jointed and glue-laminated beams can be produced to meet larger needs. It comes with a guarantee of 50 years above ground, and 25 years in ground contact and freshwater immersion.

Ritikaawood (http://www.ritikaawood.com/where_to_buy.aspx) is the sole distributor for Accoya in India.

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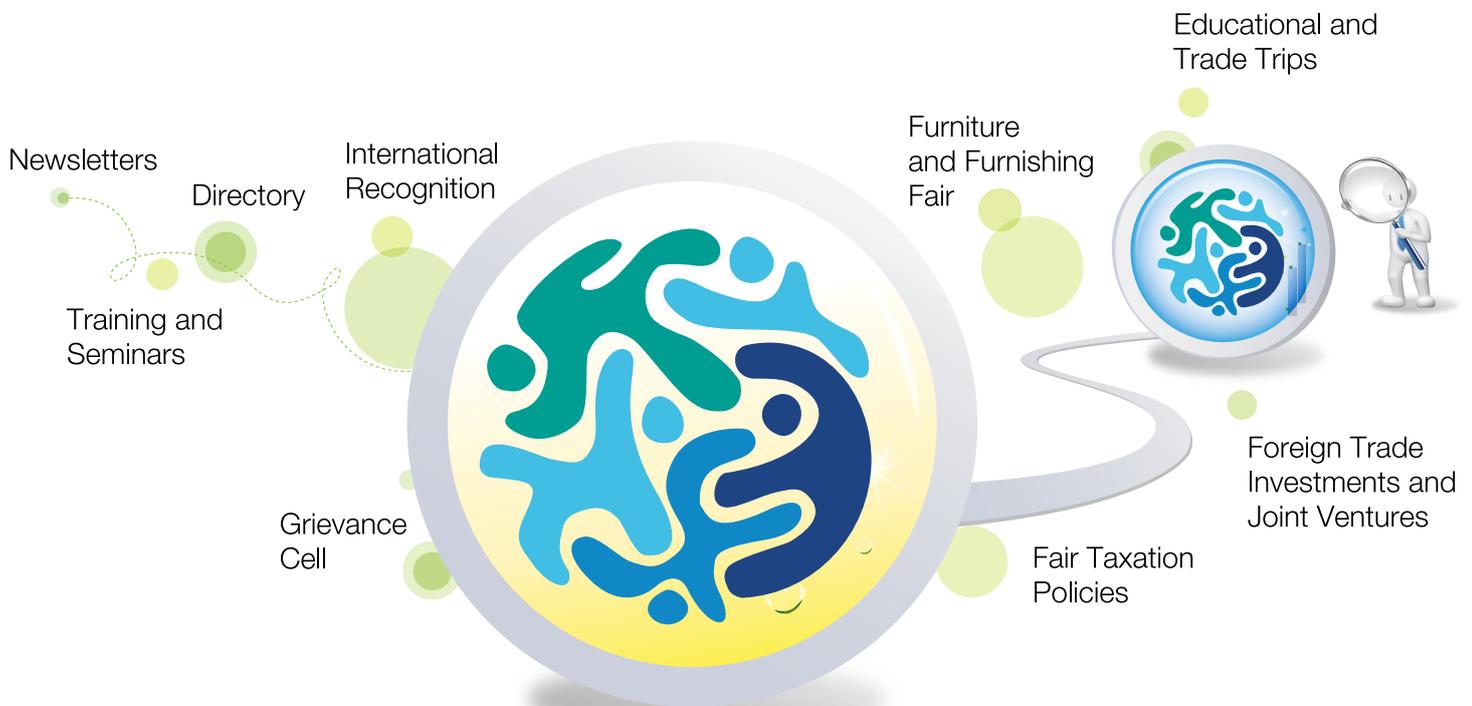


a . f . m . t

ASSOCIATION OF FURNITURE MANUFACTURERS & TRADERS (INDIA)

Furniture is an integral part of décor and functionality in residential, commercial and leisure spaces. Manufacturers, Traders and Importers of furniture products, components and accessories are all essential parts of the furniture industry who cater to the ever increasing demand in the market.

AFMT came into existence in November, 2008 as a nonprofit national industry association – a common platform to voice the competence and capabilities of its family members, to create a conducive business environment with professional knowledge, to put our best foot forward to garner local market support and to develop stronger relations with international markets.



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Official Magazine

WOODNEWS

Of comebacks and established exhibitors



The return of Biesse, Casadei Busellato, Cefla and the SCM Group of companies to the Xylexpo fold has put the biennial international exhibition of woodworking technology and furniture industry in Milan back under the spotlight. Whether it is furniture or windows, logs or panels, Xylexpo gathers and amplifies the proposals of big global groups and small and medium Italian and international companies.

Applications for Xylexpo 2014 have already been submitted by hundreds of companies committed to the development and definition of new methods to process and produce, with an eye to the environment and natural resources, and able to solve all issues related to different cycles and operations.

Big entities like the Homag Group, Ima Klessman, Robatech, Italtipresse, Michael Weinig, Barberan, Camam, Casadei Industria, Essetre, Felder, Hundegger, Friulmac, Paolino Bacci, Siemplekamp, Wintersteiger, Salvador, Incomac, Fravol, Uniteam, Wittenstein, Ormamacchine, Greda, Imal-PAL, Finiture, Wde Maspell and Vitap will be Xylexpo's brand

ambassadors.

Says Mr. Lorenzo Primultini, Acimall president: "So far Xylexpo has 350 exhibitors over a total surface of 24,000 square metres. We are a couple of months late in our agenda: as it seems, companies prefer to postpone their registration until the very last moment. However, we are optimistic and we estimate that, in May, there will be more than 450 companies, covering a total net exhibition area of 30,000 square metres."

"Italy is still a major global market, despite the problems caused by the economic challenge of this period," said Mr. Juergen Koeppel, member of the board of Homag Group, commenting on the next Xylexpo. "I am confident we will see recovery soon, because the Italian furniture industry can be competitive, and a global trendsetter for design and creativity."

He said that for the Homag Group, Xylexpo is a major international exhibition, although in recent years it had lost some position due to conflicts and discussions among manufacturers. "But if we look at the

European scenario, it is essential to have another strong event in the Old Continent besides Ligna," he added.

Many more manufacturers are proud of Xylexpo and its clear and strong role of global showcase, its capacity to approach its 50th anniversary as the one and only Italian event for wood and furniture industry technology and suppliers, supported by Eumabois, the Italian Ministry of Production Activities and Cfi-Comitato Fiere Industria (Confindustria), with the proactive collaboration of Ice, the Italian Foreign Trade Agency, and Fiera Milano.

This year there will be the 'Xia-Xylexpo Innovation Awards' not only for products – with a focus on "green economy" topics and the opportunities that "low-consumption" systems offer to final users – but also for "being a business".

Mr. Primultini declared: "The results will be out on the evening of May 14, the second day of Xylexpo, when we meet in the expo center for a welcome dinner. On that occasion, we will proclaim the top-three winners in each category."



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, *Events, 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.

EU-Indonesia timber deal closer to 'zero deforestation'



Forest cover loss in Indonesia in 2005. Courtesy: World Resources Institute

The European Parliament ratified an agreement between the EU and Indonesia in February this year to help stem illegal timber trade, but warned in an accompanying resolution that more action is needed to ensure the agreement's successful implementation.

The aim of the EU-Indonesia Forest Law Enforcement, Governance and Trade (FLEGT) agreement is to eradicate illegal logging and the trade in illegal timber, while helping achieve the sustainable management of forests.

Deforestation continues to be a rampant problem in Indonesia. The mass destruction of Indonesia's rainforests is largely driven by forest conversion for palm oil plantations and pulpwood concessions. Data from Indonesian Ministry of Forestry shows that Indonesia is losing some 6,20,000 hectares of rainforest every year.

At the core of the agreement is the development of a timber legality verification system, commonly known as the SVLK (Sistem Verifikasi Legalitas Kayu in the Bahasa language), to distinguish legal timber products from those of unlawful origin. Once the agreement is considered fully operational, Indonesian timber products verified

under the SVLK will be granted an FLEGT export license.

This license will exempt Indonesian timber products from the EU Timber Regulation, which bans illegal timber from the EU market. Operators in Europe will be able to rely on the FLEGT license, rather than perform legal checks of their own.

The European Parliament requested that certain shortcomings of the SVLK are eliminated before any FLEGT licence is issued. In particular it insisted that the system should cover all sources of timber and be based on a fully audited chain of custody.

Meanwhile, Greenpeace International has warned that national laws will continue to be broken, forested areas illegally destroyed and communities will go on suffering in the Democratic Republic of Congo if the EUTR is not fully enforced.

Greenpeace claims to have unearthed a number of high profile cases of illegal wood from companies in the DRC, some with links to human rights violations, entering the EU. Greenpeace also claims that a shipment of illegally felled, endangered Wengé wood ended up in the Czech Republic, despite the legality of the timber already having been called into doubt by Belgian

EPCH for 'Vriksh' certification

The Export Promotion Council for Handicrafts (EPCH) has been nominated by India's Directorate General of Foreign Trade as the nodal agency on due diligence for 'Vriksh', which has been specifically designed for the handicrafts industry to meet timber legality verification requirements.

'Vriksh' timber legality assessment and verification standards of legality and legal origin of wood and wooden products is intended for entities who want to accurately track and make claims about the legal origin and transport of their products. The transformation of timber from standing tree to a final product often involves several organizations that take legal ownership of a product through a supply chain.

Organizations that would be interested in utilizing this standard include forest and harvest site managers, loggers and consolidator at concentration yards, primary manufacturers in the timber supply chain, secondary manufacturers of wood products, brokers, importers, exporters and retailers.

– www.epch.in

authorities while it was previously being held in the port of Antwerp. The DRC is just one of a number of countries in the Congo Basin, in Africa and beyond, where weak forest governance and widespread corruption allow the proliferation of widespread illegal logging, that leads to forest destruction and social discord, Greenpeace contends.



Now, bio-diesel from wood waste



 How UPM converts wood waste to bio-diesel.

In an attempt to find more eco-friendly automotive fuels and reduce vehicular pollution, Finland's **UPM** launched its renewable diesel, known as BioVerno, and tested it on vehicles

over a period of nine months.

An innovation from UPM, the high quality bio-fuel is produced from residues of the forest industry, with no food materials being used, and

has been tested as an ideal fuel for all diesel-powered vehicles.

The first fleet tests of BioVerno were conducted by the VTT Technical Research Centre of Finland. They were started in May last year and ran until early 2014. The tests were conducted with a fuel blend including 20% BioVerno and 80% fossil diesel.

Experienced test drivers from VTT drove new Volkswagen Golf 1.6 TDI cars, provided by the VV-Auto Group, and gathered data for analyses during test drives by four cars, totalling 80,000 km. The study included measurements in the laboratory at the beginning of the test and after 20,000 km of driving.

Fleet testing of BioVerno diesel will continue, together with VTT, this time using buses, in the Helsinki metropolitan area in late 2014.

In 2012, UPM began the construction of the first bio-refinery in the world, producing wood-based renewable diesel. The refinery, located in Lappeenranta, Finland, will be completed in 2014. Its production capacity will be 100,000 tonnes (120 million litres) of renewable diesel a year. – *INS*

Italy's Salvador to launch three new saws



 Salvador Superangle 600.



Salvador – an Italian company which is a leader in the production of optimizing saws and crosscutting saws for the wood and furniture industry – is launching three new products at Holz-Handwerk in Nuremberg, Germany, scheduled 26-29 March.

Joining its range of automatic cutting solutions for the production of windows, building elements and joinery in general will be the new 'Classic 50' entry level crosscutting saw.

The 'Superangle 600' optimizing saw is a veritable working centre for angular cuts with a highly effective optimization system, and is equipped with a rotating table mounted on an innovative high-precision system that guarantees exact angles. It is directly controlled by an electronic motor of state-of-the-art technology and with high capacity even when braking.

There will be place also for the 'Superpush 200', an optimizing saw equipped with a pusher characterized by maximum flexibility and a new system for automatic unloading of the cut pieces: the dual-axis ejector



 *Salvador Superangle 200.*

pushes the complete sequence of the cut pieces during the phase of retraction of the pusher, so as to avoid wasting time.

Salvador was established 35 years ago in San Vendemiano, in the province of Treviso, in the heart of one of the most important districts in terms of furniture in Europe and in the world, where wood processing and

the production of the necessary tools and technologies have a long and rich tradition.

The company has pursued a consistently strong, continued growth in many markets around the world (today 90% of its production is exported), while maintaining an agile manufacturing system that is strongly rooted in the theme 'lean production'.

Jawahar's 'first-in-India' 3-in-1 door set

Jawahar Saw Mills, a Mumbai-based manufacturer, has begun marketing its triple acting door set that provides for fire protection of 60 minutes, clubbed with sound reduction of 34dB and smoke containment technology.

In addition, the door is 'green' and has no inorganic fillers and is bio-degradable with solid in-fill of Sauerland of Germany, having very low formaldehyde level of E1.

A door set was recently tested at IPIRTI's modern fire resistance door

testing facility as per IS 3614 Part 2-1992 (metallic and non-metallic fire check doors' resistance test and performance criteria), where it passed the 60-minute test. The door set comes complete with sound reduction drop seals and smoke control or arrester fitments, which are optional for buyers.

These are the most light-weight doors, highly performance oriented for the 60-minute fire rated door category now available in India. Jawahar

attributes the success to Sauerland core, which is in use for over 63 years worldwide, enabling them to provide a light, strong and technically superior door for the Indian consumer.

Jawahar Doors was established in 1906, has ISO 14001:2007, ISO 9001:2008 & OHSAS 18007:2007 and FSC (Forest Stewardship Council) accreditations, and has expertise in the design and manufacture of all kinds of engineered wood doors and door frames.

Its manufacturing facility in Khopoli (Thane district in Maharashtra) has seasoning chambers, chemical treatment plant and a well-stocked lumber yard, guaranteeing customers the best quality products combined with prompt service.



Innovation in edges



Gildo Profilati is an Italian manufacturer with over 40 years experience in the most important international markets. It specializes in manufacturing of T-mouldings and flat edge bands made out of thermo-plastic material and aluminium, finding application in many different fields.

The final product, delivered either in rolls or in lengths, can be applied manually or automatically by the aid of professional edge banders. Profiles can be provided with a pin to be plugged into or with a double-faced adhesive to adhere to the object under process.

In addition to the already existing rich product range, Gildo Profilati can study and develop new products in a short time, as customized on customer's request. Excellent quality, quick deliveries and a careful service

are a source of pride for the company. Gildo Profilati's products can be used in interior design to decorate furniture, walls, windows, doors, chipboards, tables and kitchen fronts and in the shop fitting sector. Its products are also used to decorate handles and angled surfaces. The company offers a very rich colour choice, including mirror shiny and high-gloss tones in different shades. New, customized colours can be developed on request.



Tece gets tough on children's health



Children are the most valuable things in our lives; they are the future of our world. Therefore, we always try to get them the best possible things, be it toys, furniture, and so on. Are we buying the right and healthy things for them? Let us take the example of furniture to analyze.

What is furniture made of? Panel is the most important material in furniture making. 99% of chipboard producers are professional companies who make sure that the product contains as little unhealthy material as possible. And more importantly, the proper investment for such production is so high.





Only competent companies will start such operations. Therefore, chipboard would be the least concerned material in furniture making when we consider health issues.

Edge banding is the second-most important element in furniture making. The raw edges of panels must be covered with some material. Unlike chipboard, edge banding could be produced with very primitive systems and thus some inconsiderate companies can compromise in quality

and make the product with hazardous materials to increase profit.

Let alone edge banding, this has been seen in children's toys too. Some unscrupulous companies add lead or 'DOP oil', which can cause cancer in the long run. So, as producers or buyers, we must make sure that we buy the right products that do not contain any material that could be a risk to children's health.

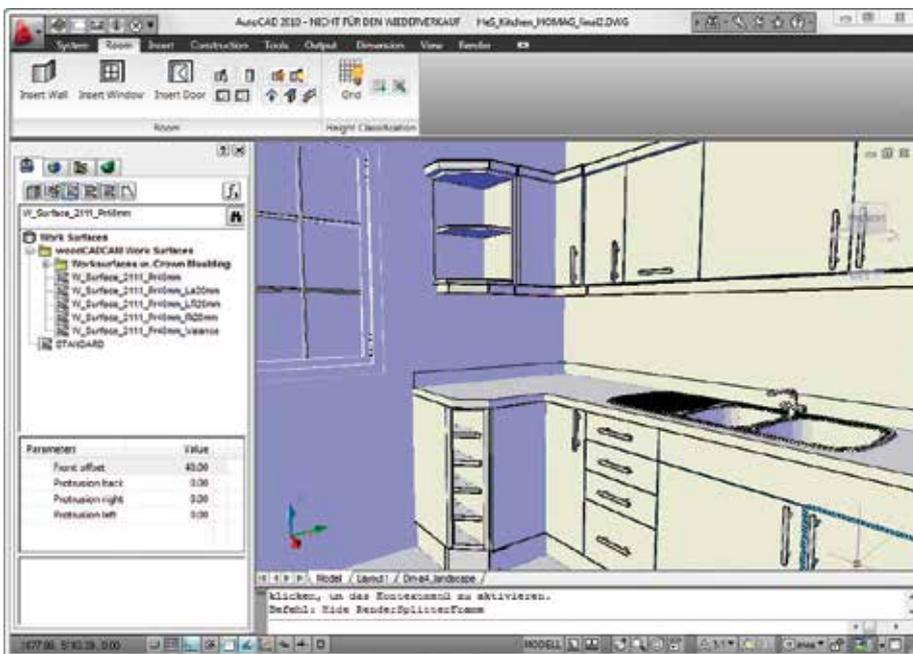
Tece Decor, a Turkey-based company manufacturing and exporting edge

banding material, guarantees that all edges produced by it do not and will not contain any of the following substances:

Cadmium and cadmium compounds, PBB (poly bromo-biphenyl), PBDE (poly brominated biphenyl ethers), chlorinated paraffin (chlorine flame retarding materials and plasticizers), poly-chlorinated biphenyl (PCB), poly-chlorinated naphthalene, organic tin compounds (tri-butyltin and tri-phenyltin) or asbestos.

Homag's eSolution: WoodCAD/CAM

An impressive photo-realistic visualization provides not only a smooth communication with architects or building owners, but also successful sales or prototype presentation. A comprehensive library with intelligent and parametrical connections allows a fast and safe design.



WoodCAD/CAM analyses the connection situation, selects suitable connection elements optional with the necessary accessories, sets the fittings by the means of parametrical rules and generates workings such as drillings or grooves on adjacent parts. Drawings, part list information or CNC programs are automatically updated. The catalogues provide panel materials, materials, fittings and much more. This data can be updated online on website's service menu at any time.

The outstanding advantage of WoodCAD/CAM is the automatic CNC programming for Homag Group machinery. Detailed machining data can be already derived from the planning and design from the individual CNC machine and then over to the workshop unit.

This software gives ideal solutions for designing and integrating the details to Homag machines for modular furniture such as kitchens, storages, living room and office furniture for optimum results.

WoodCAD/CAM is the software for furniture and interior design. Whether stand-alone furniture or complex

room designs, the entire process from the first draft to the finished product is as simple as it is impressive. With a click of mouse, production drawings and bills of material are immediately available after finishing the design.

Design data is automatically forwarded to Homag Group CNC machines for further processing.

Saw, edge and CNC, including 5-axes machines up to full automatic industrial plants can make use of the professional and economical CNC connection. A suitable identification of a work element is done via barcode. All required CNC programs are directly generated from the 3D design for the complete order.



Vibrant restroom cubicles for kids

Following the successful stint with their restroom cubicles, **Greenlam** has announced the launch of restroom cubicles especially designed for kids. This introduction of an interesting concept will now give an entirely new dimension to interior designers and architects while planning the restroom interiors of malls, schools, playschools, etc.

Speaking on the launch, Mr. Alex Joseph, Vice-President (Marketing), Greenlam Laminates said, "Children today are becoming an important aspect of any brand, and companies today are creating strategies and products which directly cater to kids. These restroom cubicles by Greenlam Sturdo are not only colorful but even child-like."

The new range will offer three new models: Kiddie World, Crazy Balls & Picket Fence. These are offered in colors and sizes best suited for kids, keeping in mind the sturdiness.

The range under 'Kiddie World' caters to the artistic side of the kids giving a lively, colorful and sturdy world to the restrooms. 'Crazy Balls' is designed keeping in mind the love that kids have for games. The round shaped design under this category helps give a sporty look to the restroom.

The range under 'Picket Fence' adds an entire world of colorful fences interspersed with other forms and icons, which help add a vibrant look to the restroom.



 *Greenlam-Summer Fun*



 *Greenlam-Kiddie world*



 *Greenlam-Crazy ball*

Greenlam is the Asian market leader in decorative laminates. It is present in over 100 countries, including the

US, Singapore, Hong Kong, UK, the Netherlands and UAE.

Homag's complete processing solutions

Brandt NKR 210/220 Series

The focus of the Brandt NKR 210/220 Series is to offer complete processing solution for the entry level segment with features which were previously available only on larger machines. The NKR 210/220 Series machine leaves nothing unfinished.



 Homag NKR220

Whether your needs are a demanding shop setting 'batch size one' production for custom requests, living and bedroom furniture or functional furniture, this series always offers the right solution.

Highlights:

Joint trimming unit gives the perfect cut and high operating life due to diamond-tipped tools for an optimum edge joint quality.

The gluing unit and magazine in coil and automatic strip formats offer reliable edge material supply, and optimal glue joints by controlling the exact amount of glue.

Heavy pressure zone (up to 3mm edge thickness and 50mm work piece height) is ensured for an optimal glue

joint. There is an optional 6mm edge thickness by 60mm work piece height.

An optimum corner rounding without adjustment or set-up is offered, resulting from the coupled diamond tool and tracer roller.

The profile scraping unit ensures smooth radii or chamfers, with optional pneumatic adjustment.

The end-trim unit chamfer renders straight adjustment by easily tilting the unit; and pneumatic adjustment s optional.

Multifunctional trimming unit is also part of the machine, with DFC tool technology, for optimum dust extraction.

The buffing unit polishes edges and maintains their natural colour.

Weeke NBX 102

This smart all-rounder is good for drilling, routing and grooving. It reduces the production costs and also has the following distinct advantages:

- Fast processing: saves time
- Takes up little room: saves space
- Simple operation: saves nerves
- Excellent processing quality: saves trouble
- Great value for money: saves money

The standard version comes with eight vertical drilling spindles, including quick change drilling system. Optional: 2 horizontal drilling spindles in X direction and 1 horizontal drilling spindle in Y direction. Grooving saw in X direction. Powerful 5 kW ETP 25 routing spindle.



 Homag NBX102

Technical specifications:

Work piece dimensions L/W/T	mm	max. 2500 x 850 x 60 (optional 3000) min. 200 x 70 x 10
Vector speed	m/min	(X-Y) 50 - (Z) 15
Compressed air required	bar	7
Compressed air connection	inch	R 1/2
Dust extraction port	mm	Ø 160
Dust extraction volume	m ³ /h	min 2170
Total machine weight	Kg	1250
Electrical power load	kW	12.5

Ecological gluing on the green line

Robatech's market appearance has been characterized by a green logo for more than 39 years, and the Concept hot melters of the latest greenline generation are "green" too, because their working mode is energy-saving. Up to 17.4% energy can be saved in combination with a heated hose (NW 6 mm) and the fully insulated SX diamond applicator heads.

This energy saving is the result of an exact analysis which Robatech carried out in-house for each component. It determined where the overall system emits the most heat, then insulated these areas specifically. From the applicator head over the hose right to the hot melter Robatech carefully investigated all appliance components for their energy consumption and heat losses.

The first step was to design a fully-insulated applicator head, SX diamond, which consumes up to 60% less energy than the preceding models. Within the framework of its greenline concept Robatech also exchanged hoses. Energy can also be saved by using a hose of diameter 6 mm, instead of the previous 8 mm.



This puts Robatech in the lead when it comes to ecologically working hot melt applicator systems. A further advantage of the insulation of the applicator head and the insulated cover over the adhesive distributor is the improved safety of operating personnel.

According to Mr. Hanspeter Huber, Product Manager at Robatech, at a later point in time the Concept hot melters with bigger tank volumes will also become available with the special Greenline insulation, at no extra charge. Moreover, Robatech has further 'green projects' in the pipeline.

Holytek introduces three routers



NA-48

- CNC router with 8 pcs auto tool changer in table linear style
- High precision CNC machining working base and components
- Servo motor control of all axis and Syntek CNC controller
- Pneumatic rods guide system
- 9 kW HSD/Italy ATC spindle, speed up to 24,000 rpm

NM-48

- Heavy duty design with cast iron column support
- Rigid machine base design
- Pneumatic rod control of guide
- Efficiency vacuum pump 5.5 kW
- Precision machining quality control
- Six vacuum zone and T-slot table
- HSD Italy power spindle

NA-48-3

- 3-head CNC router is specially designed for door manufacturing
- 6 kW spindle power (HSD/Italy) x 3
- Middle spindle with 0° and 180°
- Heavy duty design with cast iron column support
- CNC controller with 3-axes servo motor control
- Pneumatic rod control of guide
- Precision vacuum pad for door horizontal working
- Efficiency vacuum pump 5.5 kW



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Flexible, dedicated panel processing lines

Biesse Systems is the link between the customer's product and the most efficient way to produce it. Thanks to its concentrated and continual investment in the knowledge of the wood market, and the technologies required in the world of wood, it is the technological solutions partner for a furniture manufacturer or third-party manufacturer.

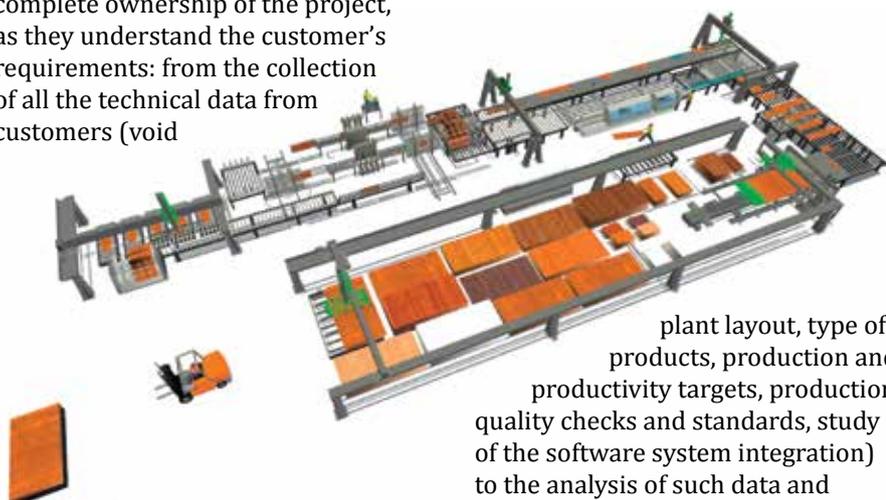
The continual focus of Biesse Systems is to understand, anticipate and provide leading edge solutions to satisfy the customer's needs and requirements from both a technical and commercial point of view, mirrored through its extensive network of subsidiaries and dealers worldwide.

Biesse Systems operates in the following three main areas:

- Design and execution of turnkey plants;
- Design and execution of automatic and integrated processing lines;
- Modernization, renovation and integration of existing plants.

Analysis

Biesse Systems project managers take complete ownership of the project, as they understand the customer's requirements: from the collection of all the technical data from customers (void



plant layout, type of products, production and productivity targets, production quality checks and standards, study of the software system integration) to the analysis of such data and

the realization of the technical and commercial job specifications.

All requirements are therefore analysed and worked out in proposed layouts of production lines, calculations, working lists and material flow lists (logistics). At the end of this process the following concepts are highlighted to Biesse customers:

- Definition of all machines and equipment necessary to develop the project;
- Study of customised machines and components;

- Study of the software integration system for the plant;
- Plant productivity calculations;
- Definition of plant logistics;
- Calculation of material flow and necessary warehouse space for the proper working of the plant.

Execution

When the execution phase of the project begins, the proposed system turns into reality. Machines are installed and tested and all necessary software instruments to manage the machines and integrate the line in the plant system software are supplied. A crucial aspect of this phase, especially in the case of highly customised plants, is the internal pre-testing of the machines, which is carried out by Biesse Systems in a dedicated area.

Plants

Biesse Systems can boast of an important list of orders placed by prestigious customers all over the world, first among all, a 10-year partnership with the Ikea-Swedwood group and the main key customers in each geographic area.

Biesse Systems has established itself in all the production processes of panel processing and furniture industry, from cutting to squaring edge banding, and from flexible processes to the Batch-1. Biesse Systems satisfies all the needs of customers in terms of solutions for production departments to turnkey

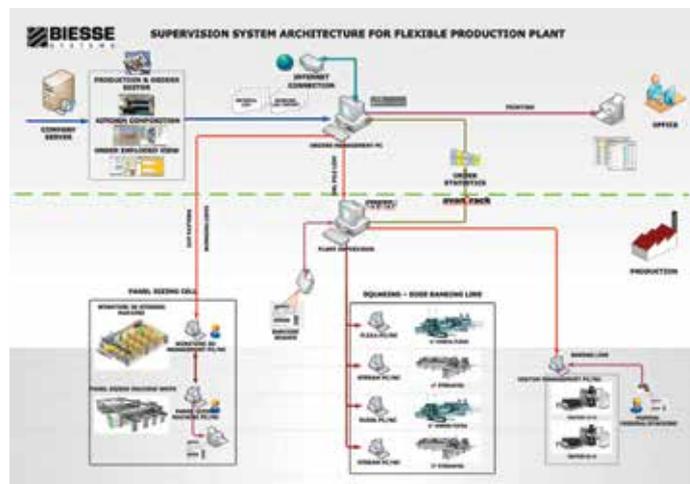
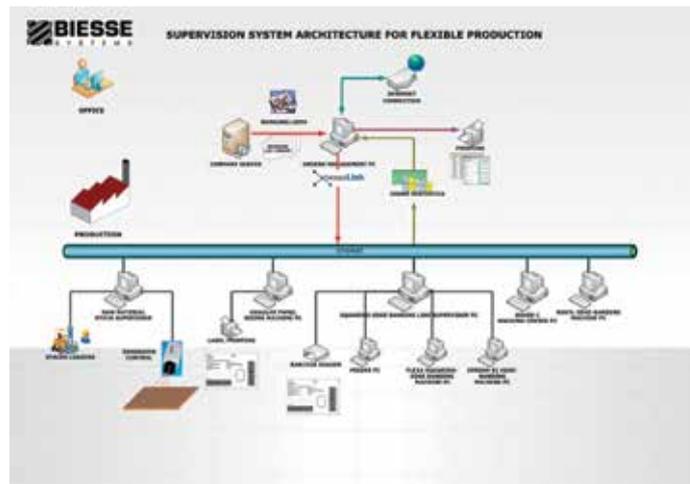
solutions.

The software integration in the production facilities has become a real necessity.

Software

Biesse Systems employs a dedicated

team that is able to manage the software system network, the data exchange with existing management systems through to the line supervisor and the tracking of the working products.



‘Biesse Simtrack’ is the simulation software that Biesse Systems uses for the analysis of the production processes. With this software it is possible to change the batch dimensions, the number of panels, the dimensions of the panels to be processed, and the machining optimizations in real time, keeping constantly under control the flow analysis, the production logistics and the reporting.



Wemhöner touches € 100-million mark in 2013



The German company for machinery and equipment, Wemhöner Surface Technologies, which has production facilities in Herford and Changzhou (China), enters the new year – its 89th – with loaded order books.

The orders mainly consist of its core product, short-cycle press lines for decorative finishing of timber products used in the furniture and laminate flooring industries. Just before Christmas, the 500th order for the Wemhöner short-cycle press

line came in. It goes to the Kronospan group, which needs it for their new plant in Belarus.

In the innovative digital printing lines segment, highly promising concepts are being offered to the market now. The division of equipment for the manufacture of photo-voltaic elements has also received orders for the first five machines. The sale of several press lines for the manufacture of door elements was also successful.

In 2013 the company for the first time

achieved sales of over € 100 million (€ 82 million in 2012).

Construction is currently underway in Changzhou where an additional production hall with a surface area of 2,000 square metres will finally fill up the existing plot of land. More construction work is to follow in 2014 in Herford, where several hundred square metres of office space will be built.

Jayakumar is MD of AkzoNobel India

AkzoNobel India Ltd. recently approved the appointment of Mr. Jayakumar Krishnaswamy as Managing Director of the company, replacing Mr. Amit Jain, who has taken on the larger role of non-executive Director on the board of AkzoNobel India.

Mr. Jayakumar joined AkzoNobel India on February 2011 as Director-Supply Chain. Until then and since 1994 he served in Hindustan Unilever, barring a short stint (2007-2009) where

he worked with the cement major, Lafarge.

Mr. Jayakumar has worked in the automotive, food, home & personal care and coatings industries and has a rich leadership experience in operational transformation and change management. He holds a mechanical engineering degree from the Delhi University (1987), and is an avid sportsman, specifically long-distance running.





SCM to host 'Home Event' in April

SCM Group's 'Home Event', which is due to attract more than 2,000 visitors from all over the world to the showrooms and factories of the Rimini-based group, will be held from 10 to 15 April 2014, alongside the Milan Furniture trade fair.

The world leader in the production of technologies for processing wood,

plastic, glass and composite materials holds the event to serve as an effective way to meet both existing and future customers, representatives and distributors.

In order to provide a more in-depth look into the huge array of solutions on offer, the 'Home Event' will focus on four 'themed tech tours', furniture,

timber construction, windows and doors, and custom-made furniture.

Each tech tour will feature meetings with experts, visits to the SCM Group factories and to the production sites of some of SCM's clients, specialising in all types of applications.

The SCM showroom in Rimini will be the heart of the event, covering 3,000 square metres and displaying more than 60 machines and production cells. Special events and specialist presentations will be organised at the production facilities at Villa Verucchio and Rimini, and at Thiene for edge banding.

Asian markets excite Novamobili

Novamobili, a well-known Italian brand in furniture production, is happy at the attention it grabbed at the recently concluded IMM, Cologne. More than 1,20,000 visitors and a particularly strong international presence meant exhibitors got the chance to meet a highly qualified and attentive international demand, especially from Asia.

Mr. Alberto Battistella, Marketing Manager of Novamobili di Battistella, based in Pieve di Soligo, Treviso, exuberates: "We saw for ourselves how many visitors there were, not just from Europe but from all over the world, in particular Asia. The international market is our main target for the future."

The 'Reverse' collection was on show at the Novamobili stand, offering an example of how different finishes and materials can be combined to create comfortable and enjoyable settings for both day and night-time living areas.

Boasting more than 60 years experience in manufacturing and selling world-class furniture, Novamobili has approximately Euro



80 million in revenues in 2012.

The company offers a huge collection for interiors, from living areas to bedrooms. Its production is distinguished by top quality, with

continuous investments in innovative technology for production lines and the typical manual skills of handicraft operations in coating, finishing, assembling and packaging.

TWMA to launch Taiwanwood next year



Mr. Shyr-tsong
Bae, TWMA,
Chairman

A great deal of Taiwan's woodworking machinery industry has gradually been taken over by the next generation. This group of successors are highly educated and motivated to bring new potential to the industry. They have inherited accumulated wisdom and technology of two generations of industry entrepreneurs.

According to Mr. Shyr-tsong Bae, TWMA (Taiwan Woodworking

Machinery Manufacturers' Association) Chairman, these new entrepreneurs are equipped with knowledge of more complete sustainable modern management techniques. "Today, Taiwan's woodworking machinery industry enjoys excellent support as it pushes to further R&D and brand establishment. The current trend toward technology exchange is driving the new generation to put even more energy into product innovation," he said in a press release.

Facing a new era, the TWMA has decided unanimously to exit Interwood Taipei 2014. In cooperation with the Taiwan External Trade Development Council (Taitra), it will organize the first Taiwan International Woodworking Machinery Show (Taiwanwood) in July 2015 at the Taipei World Trade Centre, Nangang Exhibition Hall.

As 2013 came to a close the US

economy has started to show signs of recovery, and in the Euro zone the debt crisis seems to be warming. As the annual income of the people in mainland China increases year by year, consumer demands for furniture will gradually rise.

In recent years, consumers in Taiwan have influenced new designs in furniture, and this trend will surely carry over on a huge scale in China. Therefore, 2014 will surely be a year full of opportunity and hope.

Taiwanese companies are preparing to meet upcoming challenges of the market with confidence and enthusiasm. We have highly flexible production capacity and top quality of infrastructure to our advantage. We continue to promote the W-team as it endeavours to develop brand new lines of customized woodworking production equipment designed to meet the needs of international trends.

'Factories of the future'?

The ripples of change are spreading far and wide as the pace of innovation and development in the industrial sector moves into overdrive. With 'Integrated Industry: Next Steps' as its lead theme and official motto for 2014, **Hannover Messe** will maintain its focus on integration as a challenge of pivotal importance for the future of industry and will map out the next steps along the road to tomorrow's intelligent, self-organizing factories. To stay competitive, manufacturers need to make their factories as

efficient as possible. They need to be able to respond swiftly to changes in the market, while at the same time satisfying the growing demand for product individualization and customization.

In short, they need flexible, intelligent factories – factories of the future, in which machines, plant and products can talk to each other. This interaction relieves the skilled workers in physical labor and puts him in a position to focus on controlling and optimizing the production process.

Many technologies for achieving this have been developed over recent years. The next steps are about integrating these technologies into industrial production in such a way that they form a harmonized and fully networked whole. Precisely this is the focus of Hannover Messe 2014.

Hannover Messe 2012 featured 4,872 exhibitors from 69 nations. This year it will be held from 7-11 April. For more, visit www.hannovermesse.de/home.

Indian imports of US hardwoods reach \$7.33 million



The Chapel of St. Albert the Great, in Edinburgh, UK, shows widespread use of American hardwoods.

Total exports of US hardwoods to India reached US\$ 7.33 million for the year 2013, according to a statement issued by the **American Hardwood Export Council (AHEC)**, the leading international trade association for the American hardwood industry.

This includes the value of shipments of American hardwood logs, lumber (sawn timber), veneers, plywood and flooring and represents an increase of 8% over the previous year. The US also exported some US\$ 1.13 million worth of white oak barrels and barrel staves to India last year, but these were directly shipped to wine and whiskey producers, as opposed to the timber trade and wood processors. Statistics released by the US

AHEC reveals new outreach strategy for Indian market on the sidelines of IndiaWood 2014

Department of Agriculture show that shipments of American hardwood logs accounted for 31% (US\$ 2.28 million) of the US\$ 7.33 million total exported to India last year. This equaled 5,609 cubic metres and marked a 24% rise in value and a 47% rise in volume over 2012.

The bulk of the volume of logs shipped was made up by tulipwood, which was recently embraced by Indian plywood manufacturers as an alternative face veneer peeler species to traditional species from Myanmar, such as Gurjan (also traded as Keruing).

With effect from April 1, 2014, Myanmar is looking to impose a total ban on the export of raw timber (round logs). The impact of this ban is also likely to be felt very deeply by Indian importers and users of natural forest teak, who will be forced to import processed lumber from Myanmar (when available) or plantation teak and alternatives.

“The acceptance of American hardwoods in India has increased significantly in recent years. AHEC anticipates that demand for US hardwoods will continue to rise for the foreseeable future,” said Mr. Roderick Wiles, AHEC Director for Africa, West & South Asia and Oceania.

“The European Union Timber Regulation (EUTR), which came into effect in 2013, is expected to have a significant impact, given that Indian products listed under the EUTR have an annual export value of around US\$ 1.3 billion. We are positive of increased demand for American hardwoods in India, not just because of the consistency in availability, quality and grade, and wide range of colors, grains and textures but also on account of the sustainability and legality of US hardwoods,” Mr. Wiles added.

Of all US hardwood lumber exports to India the main species shipped was hickory, which was destined for the large tool and tool handle industry. Increases were also seen in the volumes of other species – such as white oak, walnut, maple and ash – which would have been used in furniture, doors, interior joinery and flooring.



In addition, AHEC also revealed its new outreach strategy for the year on the sidelines of IndiaWood 2014, which concluded in February at the Bangalore International Exhibition Centre.

Through 2014, AHEC will re-focus its strategy in India on education aimed at all elements of the 'timber chain', whether it is specifiers (architects

and interior designers), end users (furniture and joinery manufacturers) or importers and distributors. AHEC intends to conduct lumber grading workshops and design and manufacturing seminars in a number of metropolitan areas around India, while also maintaining a constant on-the-ground presence and technical assistance through its representative

based in Mumbai.

Mr. Wiles said, "The massive scale of the Indian market is driving a property boom across the country. This is leading to greater demand for fitted and loose furniture, for flooring and for joinery. AHEC firmly believes that this will lead to increased demand for high quality raw materials, such as value-added American hardwoods."

Sandalwood auctioned in Kerala

In February this year, one of the largest sandalwood auctions was held at Marayoor, in Kerala. Despite rampant poaching of sandalwood in the four southern states of India, the forest department of Kerala was able to protect some 8,500 acres of natural forest rich in sandalwood in the Marayoor-Kanthalloor forest reserve in the Western Ghats.

The sandalwood here is carefully tended and a seed farm has been established as most of the sandalwood trees are over 60 years old. For the recent auction the forest department did not harvest living trees but collected dead and storm-blown trees, as well as fallen branches.

Every year, several tonnes of sandalwood is collected, stored and then auctioned at the government sandalwood depot. A large number of buyers from temples, oil factories, traditional medicine manufacturers and handicraft factories bid for this precious fragrant wood. At the auction last year 40 tonnes of sandalwood was sold for Rs 330 million. The average price was around Rs 6000 per kg.

This year a total of 38 tonnes of sandalwood was sold for the following prices: Class II for Rs 7,810/kg, Class V for Rs 7,640/kg, Class VI for Rs 6,925/kg, Class VII for Rs 6,711/kg and roots (II Class) for Rs 6,507/kg.

Meanwhile, a recently released report tracking climate change in India has suggested that Maharashtra state lost 2,116 square km of natural forest area over the past 20 years. On the other hand, the report notes that the state has also gained 5,030 square km of forest cover in the period 1987-2011.

However, the forest cover gain includes rubber and teak plantations only. The authors of the report say the government needs to rethink its forest compensatory policy to emphasise the need to regenerate natural forests and not merely compensate the loss of natural reserves with plantations.
- ITTO

German machinery sales drop 5% in 2013

Sales in the German woodworking machinery industry dropped slightly (5%) in 2013 compared to the year before. Thus the value of Euro 2.2 billion for stationary woodworking machinery manufacturing decreased marginally (Euro 2.3 billion in 2012). German producers of woodworking machinery are global market leaders – both in terms of technology, as well as sales. Around 17,500 employees in 200 companies produced woodworking machinery and tools worth Euro 3.3 billion in the year 2013.

The biggest declines were in exports to Asia and South America, the growth drivers of past years. Nevertheless, the trade is starting the year 2014 in an optimistic mood. Machine producers have been able to increase their order income by 15% in the last year.

"We are looking back at a business year that was generally checkered. Business prospects for suppliers in the wood and furniture industry are positive. High-tech investments are globally at a good level. That is why we are expecting an increase of 5% for our sector," explains Mr. Bernhard Dirr, Managing Director of **VDMA**, the German woodworking machinery association.

In 2013 Russia was export market number one for the second time in a row (Euro 177 million), followed by China (Euro 153 million) and France (Euro 125 million). The US market's constant positive development (4% growth) is good news.

There is still a big question mark about the current exchange rates for the current year. The trend was negative for export in some growing markets such as Turkey, India and Russia.

Machine imports into Germany increased by 8% (Euro 365 million), mainly from China, Italy and Austria. Most of these are machines for semi-professional use.





Now, a real estate sentiment index

Knight Frank India, in association with the Federation of Indian Chambers of Commerce & Industry (FICCI), released its first set of findings of the real sentiment index in February. The quarterly report captures the supplier side perspective on the real estate market conditions.

Key takeaways:

- Stakeholders feel the real estate market has deteriorated compared to the last six months

- Current sentiments are pessimistic across all zones
- East and South remain marginally more optimistic compared to the rest
- Credit lending/ funding situation may also remain muted in the near future
- While there remains an evident optimism for the residential sector, the office market is expected to be pessimistic in the coming two quarters

- Larger project completions, at a time when business growth and employee addition remain weak, will lead to higher vacancy levels in the Indian office market
- Majority of the respondents are positive about the economic scenario and expect an improvement in the next six months.

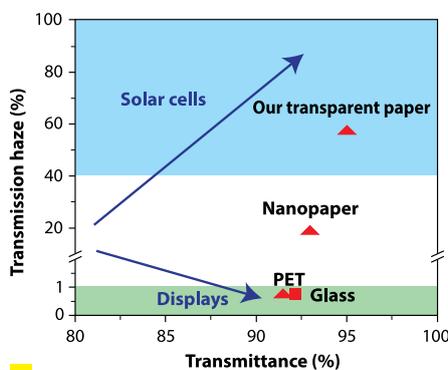
– www.in.knightfrank.com

Wood may replace plastics in solar cells

A new kind of paper that is made of wood fibres – yet is 96% transparent – could be a revolutionary material for next-generation solar cells. Coming from plants, the paper is inexpensive and more environment-friendly than the plastic substrates often used in solar cells.

However, its most important advantage is that it overcomes the trade-off between optical transparency and optical haze that burdens most materials. A team of researchers from the University of Maryland, the South China University of Technology, and the University of Nebraska-Lincoln, have published a paper on the new material in a recent issue of Nano Letters.

As the researchers explain, solar cell performance benefits when materials possess both a high optical transparency (to allow for good light transmission) and a high optical haze (to increase the scattering and therefore the absorption of the transmitted light within the material). But so far, materials with high



Optical transmission haze versus transmittance for different substrates at 550 nm. Glass and PET are in the green area, which are suitable for displays due to their low haze and high transparency. The transparent paper developed in this work is located in the cyan area, which is the most suitable for solar cells.

transparency values (of about 90%) have very low optical haze values (of less than 20%).

The new wood-based paper has an ultra-high transparency of 96% and ultra-high optical haze of 60%,

which is the highest optical haze value reported among transparent substrates. The main reason for this good performance in both areas is that the paper has a nano-porous rather than micro-porous structure.

Regular paper is made of wood fibres and has low optical transparency due to the micro-cavities that exist within the porous structure that cause light scattering. In the new paper, these micro-pores are eliminated in order to improve the optical transparency using a treatment to weaken the hydrogen bonds between the micro-fibres that make up wood.

To test the paper for solar cell applications, the researchers coated the wood fibre paper onto the surface of a silicon slab. Experiments showed that the light-harvesting device can collect light with a 10% increase in efficiency. Due to the simplicity of this laminating process, solar cells that have already been installed and are in use could benefit similarly from the additional paper layer.

Although there are other papers made of nano-fibres, this paper demonstrates a much higher optical transmittance while using much less energy and time for processing.

– *Courtesy: Phys.org.*



India taps into to wood source

Foreign direct investment in Myanmar's wood processing tops US\$ 51 million; India is biggest stakeholder

Myanmar's Directorate of Investment and Company Administration has said that eight timber processing licenses were granted to foreign firms in the 2013-14 financial year.

According to the Irrawaddy News Journal of 5 March, five companies from India were granted licenses, valued at US\$ 26 million. Two companies from Singapore received

licenses valued at US\$ 24 million and one Korean company obtained a license valued at almost US\$ 1 million.

As 31 March was the last date for log exports, both sellers and buyers are anxious to ship as much as possible before the deadline. Following a directive from the Ministry of Environment Conservation and Forestry, the Myanmar Timber

Enterprise (MTE) announced that, from 1 April this year all hewn (half squared or roughly squared hand sawn) teak and hardwoods must be further processed domestically before export.

Similarly, baulks, and logs cut into boules must also be further manufactured into processed wood products to qualify for shipment.

Log exports from Myanmar between April 2013 to the end of February 2014 are estimated to have been 4,76,000 cubic metres of teak logs and 15,30,070 cubic metres of other hardwoods. Some 5,56,300 cubic metres of teak logs and 15,67,900 cubic metres of other hardwoods were shipped during fiscal 2012-13.

Teak and other hardwood log shipments in February were the highest for the year to date at 1,23,875 cubic metres of teak and 2,22,975 cubic metres of other hardwoods.



Teak ready for export from Thilawa port, in Myanmar.



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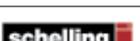
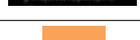
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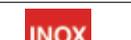
WOODNEWS

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WHAT DO YOU THINK?

WOODNEWS

Dr. P. Selvaraj, Achipatti Post, Pollachi (Tamil Nadu):
I loved the way in which the article 'Kitchen with design' (*WoodNews*, Nov-Dec, 2013) has been written. It provided a lot of information on architectural layouts. The idea of 'Eat-in kitchens' was wonderful! In my opinion, a summary of production cost would have made the article more informative and educative. Blum's corner solutions are also pragmatic ideas. It is true that in many kitchens corner space is not utilized properly. How many kitchens are ergonomically organized? Content visibility, organized cutlery, gentle push, are all great advantages for housewives. The photographs used to illustrate the 'corner solutions' were also very apt. I also enjoyed reading 'Better late than never' in the same issue. Since only 30% of our demand for modular kitchens is met by the organized industry *WoodNews* and other media could disseminate information on modern modular kitchen production processes and technology among untrained carpenters.

Mr. Krishna Kumar Keshri, Business Owner, Keshri Trading, Nimtala, Kolkata (West Bengal):
I love *WoodNews*. People in woodworking can gather information and gain knowledge about the industry by reading the magazine. In short, *WoodNews* has become a mentor of our industry in India.

Mr. T.K. Ghosh, Partner, Reliable Furniture, Jadav Ghosh Road, Kolkata (West Bengal):
WoodNews is a progressive news magazine for manufacturers, trading houses and new age customers. It carries good articles on innovative concepts in quality furniture, and on space saving products in particular.

Rasulsab Allisab Nandaganv, Saw Mill Proprietor, Nandaganv Small Scale Industries, Athani Road, Bijapur (Karnataka):
WoodNews is a good reference for newly introduced machinery for our wood workshop and gives tips to reduce labour cost. In future, the magazine could write about how to use material judiciously and reduce wastage to a minimum.

Mr. K. Karthik Shiva Priyaan, CEO, Marketing Operations, KAK Exports and Imports, Madipakkam, Chennai (Tamil Nadu):
WoodNews magazine is very good for industrialists and businesses. I would like to see articles on wooden flooring and similar projects by prominent architects.



WOODNEWS

Name Arch. Prashant Khandale
Designation Proprietor
Company MEROF - Project Planners & Management Consultant
Comment Woodnews is very informative & descriptive & to broaden our vision now it is need necessity to train the wood working personal to achieve international standard. My knowledge is much updated now, so, I thank to woodnews... & best wishes

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EVENTS CALENDAR

Interzum Guangzhou 28 March to 1 April, 2014

As one of Asia's most comprehensive woodworking machinery, furniture production and interior decor trading platforms, the show has been extended by one day to five days, and will be held once again in conjunction with the China International Furniture Fair. More than 1,000 manufacturers and suppliers are expected to occupy the 1,30,000-square-metre venue, and 60,000 visitors are anticipated.

Venue:
Pazhou Complex, Guangzhou, China.
Contact:
www.interzum-guangzhou.com.

Russian Wood & Timber 1 to 3 April, 2014

Now in its fifth year, the B2B show enjoys strong support from some of the biggest forestry companies. Participants include forestry holdings, equipment manufacturers, policy makers and industry experts. Most delegates are senior decision-makers within companies, including general directors, presidents, vice-presidents, managing directors and divisional directors.

Venue: Intercontinental Tverskaya Hotel, Moscow.
Contact: www.adamsmithconferences.com/event/wood-processing-timber-logging-russia.

Dubai WoodShow 8 to 11 April, 2014

The Dubai WoodShow stands as a hallmark for wood products such as timber, hardwood, softwood, plywood, hardboards, MDF, wood and timber flooring, treatment products, spraying equipment and raw wood materials in West Asia. A range of wood machineries, including boring and combining machines, blades and knives, edge banders, sanding, finger joint, plywood manufacturing machinery, wood accessories and components and dust control equipment and the latest technologies will be presented during the show.

Venue: International Convention and Exhibition Centre, Dubai.
Contact: www.dubaiwoodshow.com

Indian Furniture & Accessories Show 15 to 18 April, 2014

Organized with the primary objective of bringing before the world, a select repertoire of furniture & accessories from India, IFAS is an exclusive international B2B trade fair, showcasing the finest in Indian craftsmanship and artistic elements in perfect harmony with modern designs and new product developments. Its exhibitors are 250 leading manufacturers of furniture, woodcraft and other allied products, from the major manufacturing hubs like Jaipur, Jodhpur, Saharanpur, Moradabad, Delhi, Mumbai, Ahmedabad, Bareilly, Chennai and the North-East region.

Venue: India Expo Centre & Mart, Greater Nodia.
Contact: www.epch.in

Xylexpo 13 to 17 May, 2014

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