

# WOODNEWS

Furniture and Manufacturing Technologies

JAN - FEB | 2014 | Bi-monthly | Vol.23 · No.5 | ₹100



INDIA WOOD 2014  
21-25 Feb.  
2014  
Bangalore International  
Exhibition Centre

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## Kitchens go moisture resistant for the first time in India!

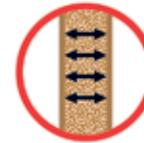
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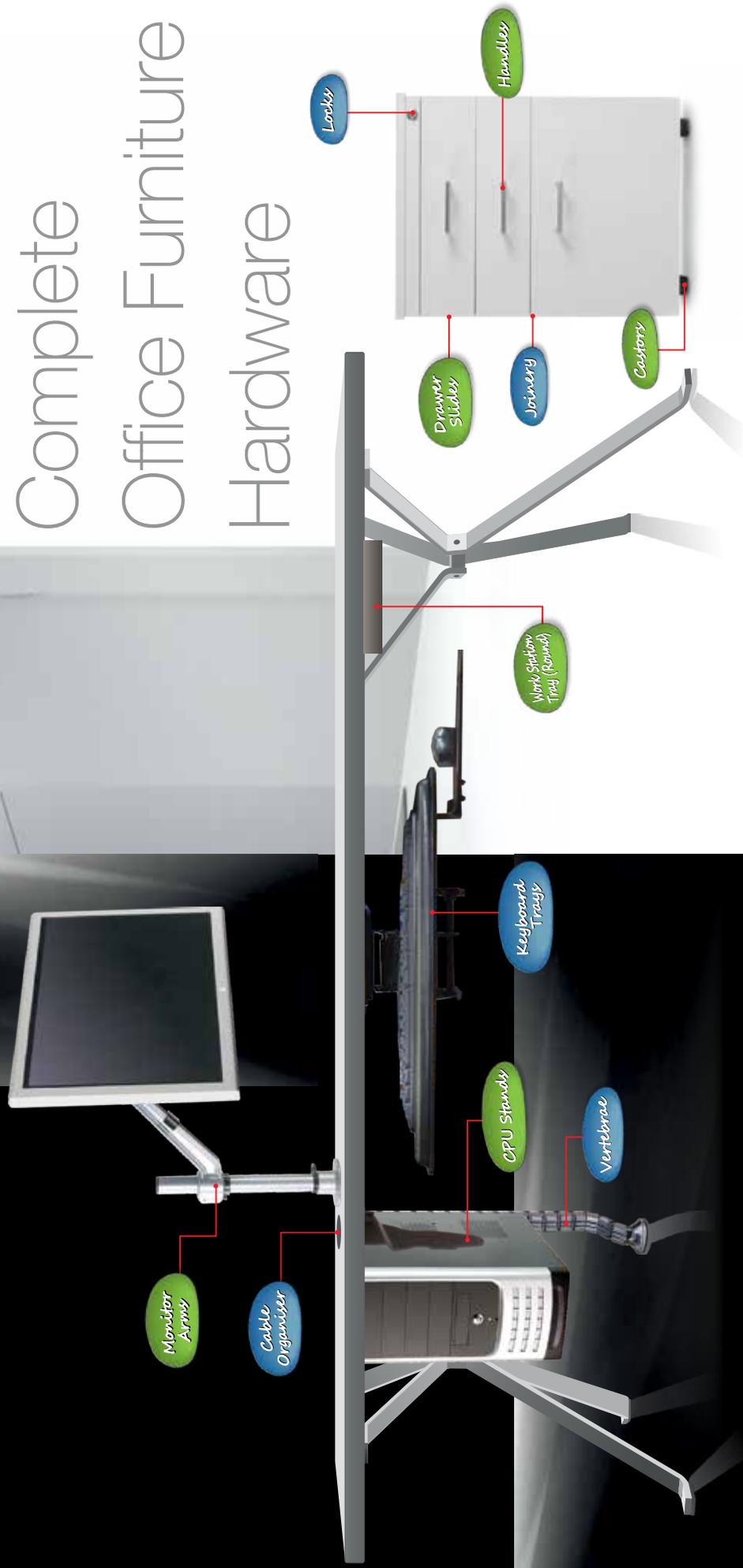
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# Complete Office Furniture Hardware



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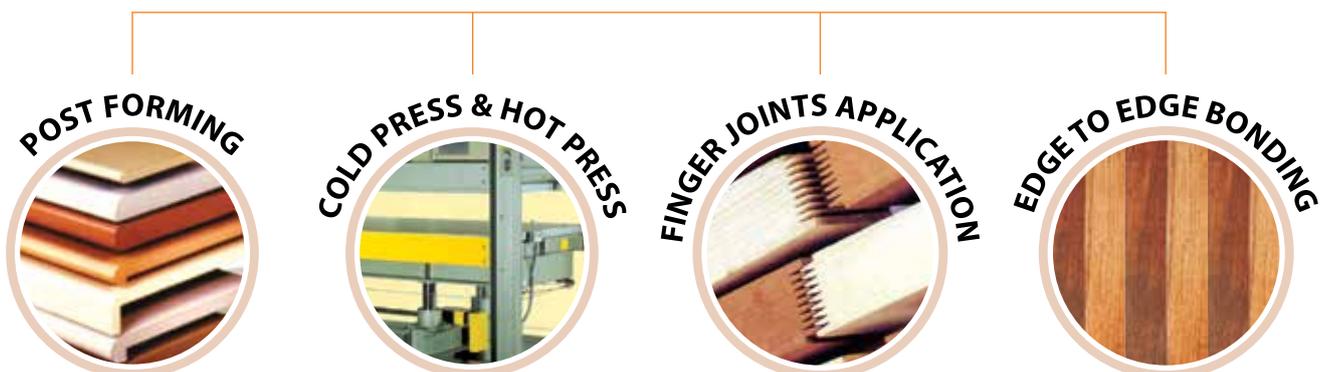
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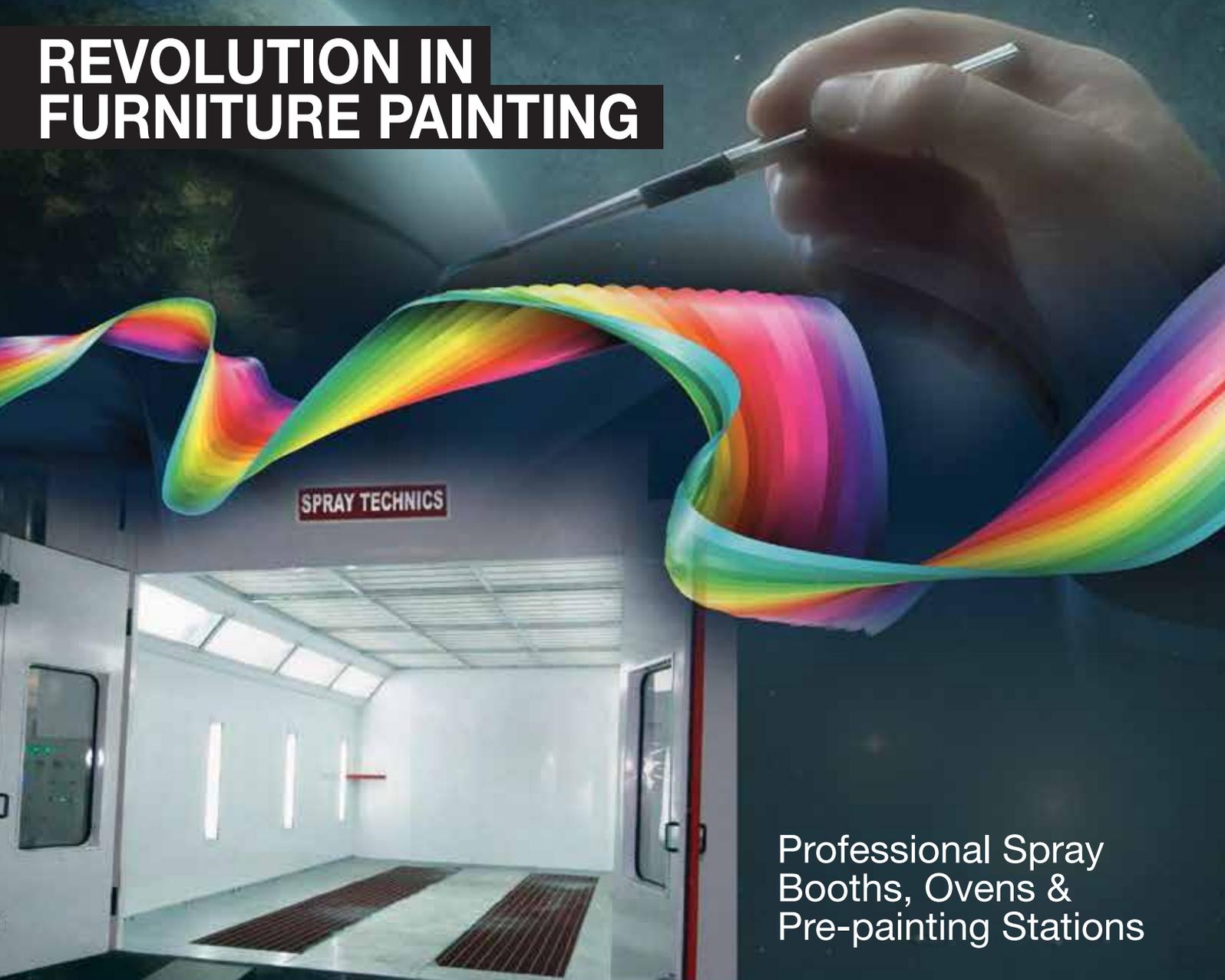


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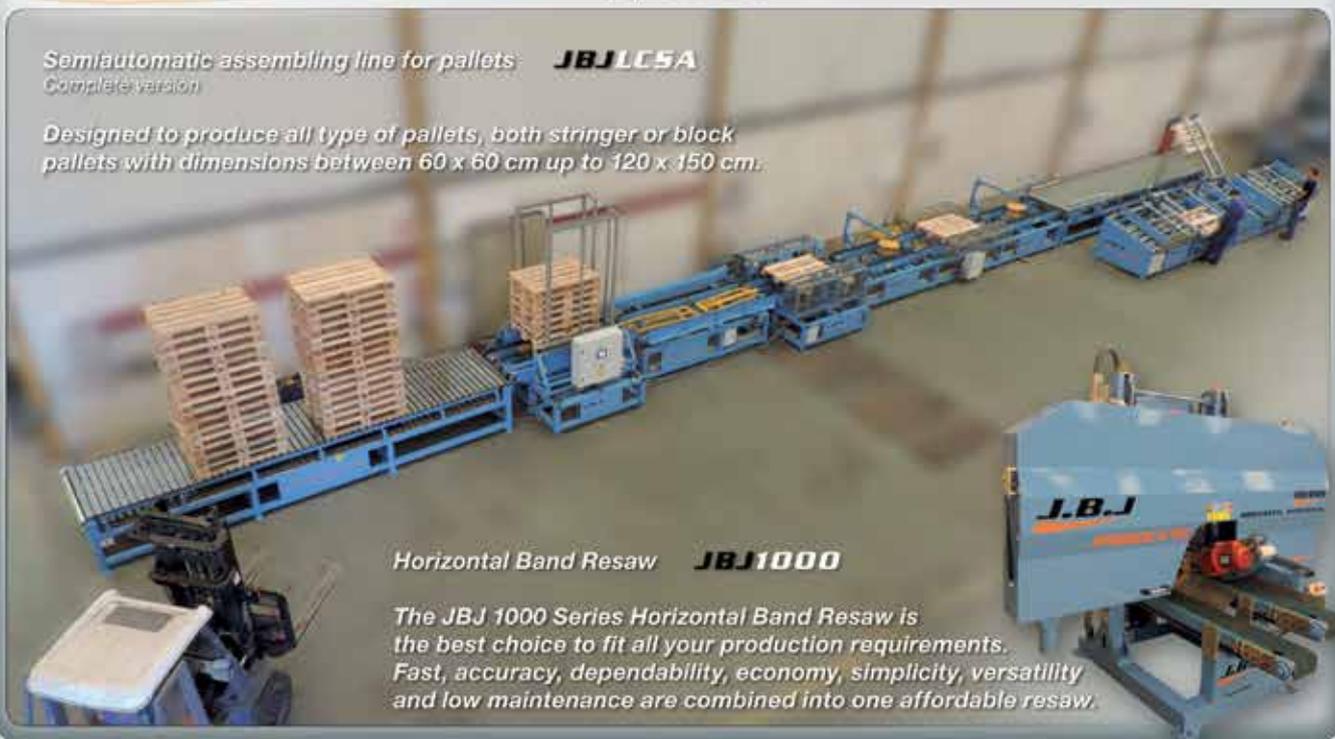
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LC DX-1325 CNC Router Machine

**LC DX-1325 CNC Engraver Machine**

Description	Parameter
X,Y,Z Working Area	1300x2500x150 mm (optional 250MM z)
Table Size	1450x2750 mm
X, Y Axis	18 mm Ball Screw
Z Axis	18 mm Ball screw
Spindle Power Motor	3 kw Water cooling spindle
Spindle Speed	6000-24000RPM
Driving System	Stepper system
Working Voltage	AC220V/50/60Hz 3PH(optional: 380V)
Command	G code & M code
Operating System	NC Studio (optional - DSP System)
Collet	ER16
Software Compatibility	Type3, Ucamcam, MasterCam, Delcam and any other CAD/CAM Software

₹6.3  
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LC 1224 CNC Router Machine

**LC 1224 CNC Engraving Machine**

Description	Parameter
X,Y,Z Working Area	1220x2240x200mm
Table Size	1340x2720mm
Structure	Steel Base
X, Y, Z Axis	Linear Guide ways & Ball Screw
Max. Power consumption	3.0 Kw without spindle
Travel Speed	3 Kw Water Cooling Spindle
Cutting Speed	0-6000 mm/min
Spindle Speed	0-18000 rpm / 24000 rpm
Drives	All 3 axis micro stepper
Voltage	AC220V/50/60Hz
Command	G Code, "iso, "ming, "jit
Operating System	DSP System [March 3-PC Software]
Interface & Flash Memory	Printer Port 30pin and USB, 32MB
Collets	Ø 3.175, Ø 4 & Ø 6
Software You Can Use	Type3, Ucamcam, MasterCam, Delcam and any CAD/CAM Software
Packing Size	Separated: 3050x1950x1000 mm
Net Weight	950 KG/Gross Weight (900 kg)

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**3D Scanning Machine**

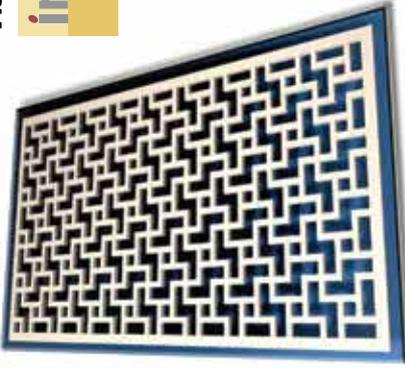
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Parameters
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Single scan time : <5s
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Distance of Work : *1-400mm (can adjust with machine length)
Splicing by ENGLISH SOFTWARE
Operation system : Windows2000/XP/Vista



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LC 1325 2 Spindle CNC Router Machine

**LC-1325 CNC Carving Machine**

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Table Size	1440x3040mm
Structure	Steel Base
X, Y, Z axis	18 mm square Guideways
Max. Power consumption	16 mm ball screw
Travel Speed	5.0 Kw without spindle
Cutting Speed	3 Kw imported water cool spindle
Spindle Speed	10,000mm/min
Drives	0-24000 rpm
Voltage	All 3 axis micro stepper (opt. Servo Japan)
Command	G Code, "iso, "ming, "jit
Operating System	DSP System [March 3-PC Software]
Interface & Flash Memory	Printer Port 30pin and USB, 32MB
Collets	Ø 3.175, Ø 4, Ø 6 & 12.75
Software You Can Use	Type3, Ucamcam, MasterCam, Delcam and any CAD/CAM Software
Packing Size	Separated: 3200x1960x1340 mm, Integrated: 3200x1960x1870
Net Weight	1800KG (Gross Weight: 1250kg)

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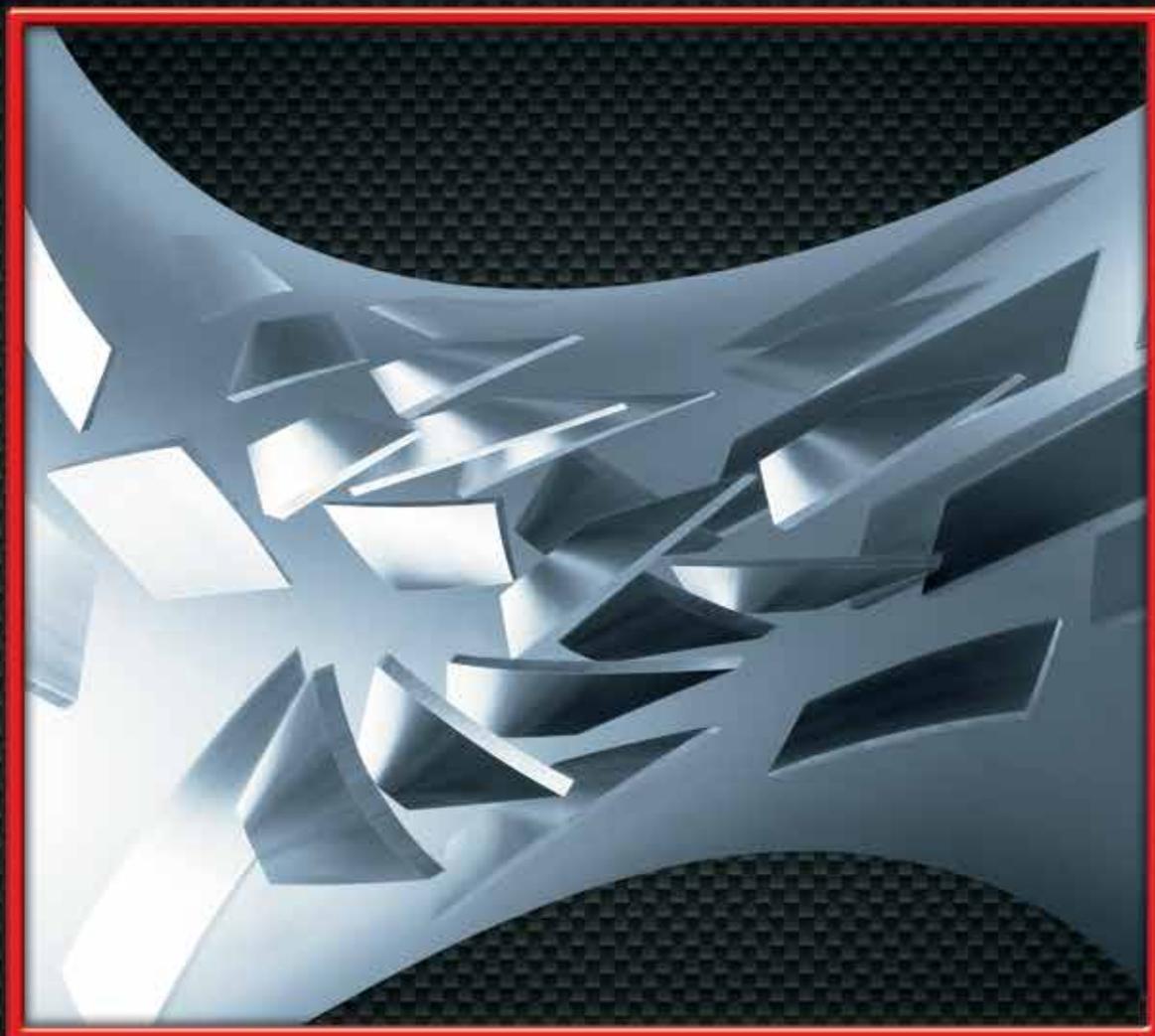
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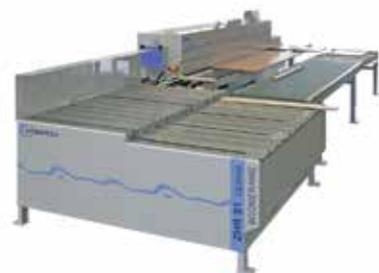
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Substrate maximum thickness .....	min 100 mm
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Resolution .....	360 dpi with 3 grey scales
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# CONTENTS



Jan - Feb 2014



COVER  
STORY

24

IndiaWood 2014:



The preparations are almost done, and it is time to air expectations – footfalls in excess of 50,000



INTERVIEW

72

Shilpa Pophale, MD of Electronica Finance, says her aim is to roll out 'entrepreneur-friendly loans' for MSMEs



FEATURE

78

Investing in machinery maintenance contracts makes good sense



REVIEW

80

Index 2013: Conflux of ideas and acclaim





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# CONTENTS



Jan - Feb 2014



## CASE STUDY

82

Chennai's SMK strengthens itself with the robust new Wood-Mizer1000



86

Canadian wood offers alternative for Indian doors and furniture



## ENVIRONMENT

88

AHEC sets the pace for wood certification

90

EU TR caught up in paper work



## DESIGN & FINISHING

92

Tulipwood artistry in London warehouse

95

Biofore's car has 'new' wood



## PRODUCTS & PROCESSES

96

B.A. Group, Biesse, Cefla, Kastamonu, Robland, SCM, Siempelkamp, Wemhoener, WoodTech, etc.



## NOTES & NEWS

114

Acimall, XYZ, Grass, IFT, ILMA, Jai Industries, Schelling, PEFC, etc.

## WOODNEWS

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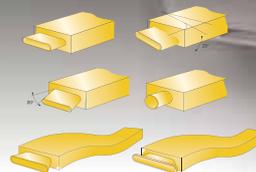
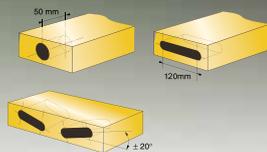
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# EDITORIAL

A series of horizontal lines in yellow, pink, blue, and red, extending from the right side of the 'EDITORIAL' text.

Dear Reader,

At the outset, here is wishing you a Happy and Prosperous New Year! Let us hope that the upcoming general elections in India will end the stagnation in politics and set the direction and pace for further socio-economic reforms in the country. That would put the brakes on the economic downturn in India, ease inflation and spur growth for a gradual comeback. It would doubtless lead to better opportunities, greater scope... and also bigger competition from abroad! It is in exciting times like these that IndiaWood (21-25 February, 2014) will make its mark with its 8th edition. Check out the details in our cover story this time, including the *WoodNews* seminars, spread over the first two days of the premier show.

IndiaWood is not just another B2B trade show. Through continuous and impressive growth and innovation it has already established itself as South-East Asia's largest woodworking exposition. This time around, there are more than 600 exhibitors from 40 countries, who will display and demonstrate the latest in woodworking machinery, material, technology, products and services. Coming ahead of the general elections in India it will be, in a manner of speaking, a scale to determine the depth of the nation's economy, a litmus test of the resilience of business and enterprise in the country, and an indicator of the times to come. Be there (Bangalore International Exhibition Centre) if you don't want to miss out on the historic occasion!

Predictably, the mechanism to implement the newly enforced and widely accepted European Union Timber Regulations (EUTR) has run into some trouble: the necessity for manifold certification and humungous documentation ensured it! But it is only a matter of time before simplified processes and procedures are in place and illegally harvested wood is barred from not only the European and North American markets, but also large tracts of Asia, Africa, Latin and South Americas.

In the next issue of *WoodNews* (March-April), I propose to bring the focus back on home furniture, hardware and fittings. If you have any inputs or suggestions email them to me: [editor@woodnews.in](mailto:editor@woodnews.in). Last, but not least, I request you to make use of the pre-registration facility for IndiaWood. Instead of waiting in queues at the venue, get your visitor's badge delivered home. Register at [www.indiawood.com](http://www.indiawood.com), that's how easy it is! See you all at IndiaWood. Meanwhile, happy reading!

**Dhananjay Sardeshpande**



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INDIA  
WOOD

2014

# Final Countdown!



**8th edition of S-E Asia's premier woodworking show expected to record 50,000+ footfalls between 21 and 25 February**

The preparations are almost done, and it is time to air expectations. The 40,000 square metres of available exhibition space for IndiaWood 2014 has been sold out. South-East Asia's largest bi-annual trade show for woodworking machinery, tools, fittings, accessories, raw materials and products is also sure to record footfalls in excess of 50,000 – a new benchmark.

The main attractions during the 5-day show (21 to 25 February) – to be held at the Bangalore International Exhibition Centre –

will be new product launches and innovations. Visitors will get to watch full production lines and live demonstrations of more than 1,000 machines during the expo.

Also on display will be woodworking solutions, machinery, materials and components which will be categorized as machinery and non-machinery.

It is co-organized by Eumabois, the federation of European woodworking machinery manufacturers.

There are more than 600 confirmed exhibitors from more than 40 countries; and 10 country pavilions

from Germany, Italy, Turkey, Taiwan, China, Sri Lanka, Canada, France, Malaysia and the US.

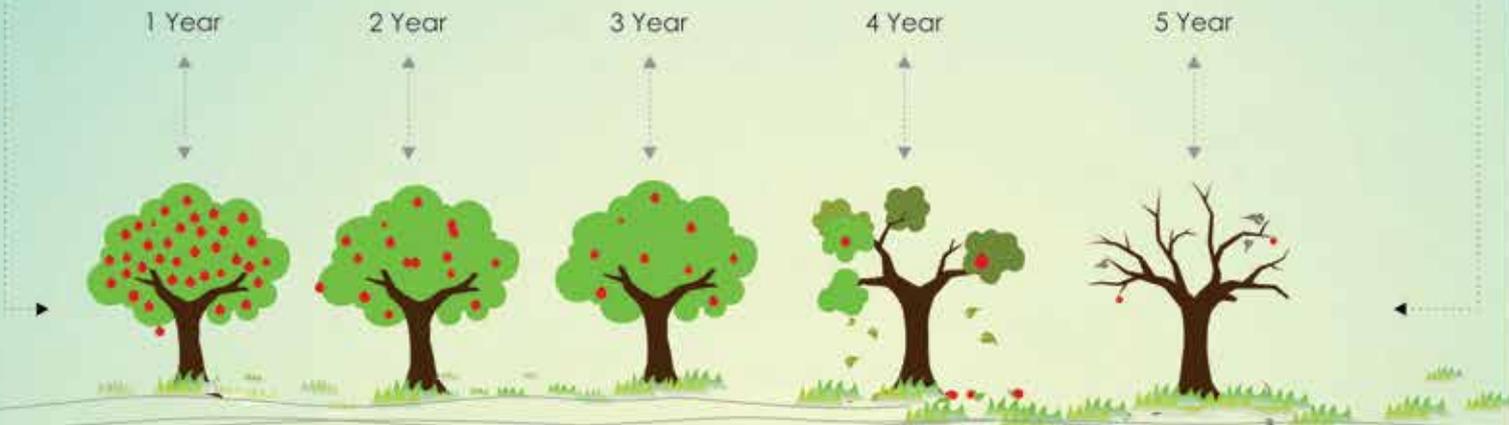
#### **Visitor Profile**

More than five country delegations of woodworking professionals, furniture manufacturers, architects and interior designers have chalked out plans to participate as business visitors. The organizer, PDA Trade Fairs, is not leaving any stone unturned to reach to the target audiences.

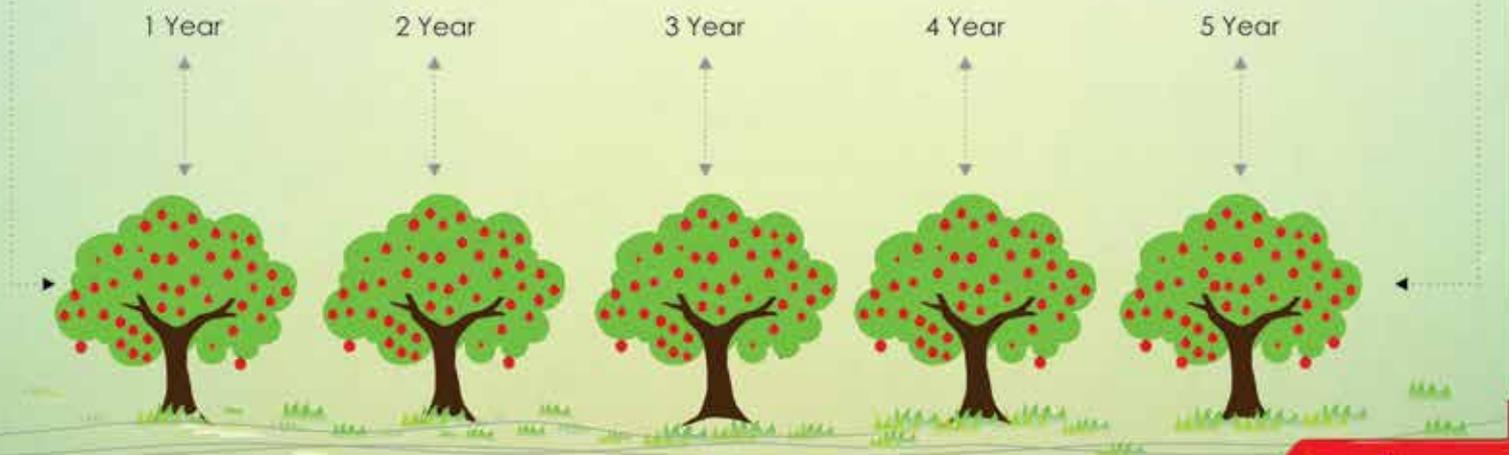
IndiaWood 2014 has been promoted through participation in key furniture fairs across Asia, to extend ▶

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## Exhibitor profile:

More than 600 machinery, wood & wood-based product manufacturers from 40 countries. Pavilions from Germany, Italy, Turkey, Taiwan, China, Sri Lanka, Canada, France, Malaysia & US.

## Visitor profile:

Saw millers, timber & lumber dealers and distributors, hardware dealers & resellers, architects & interior decorators, woodworkers, furniture retailers & non-banking finance companies.



personalised visitor invitations to furniture manufacturers. Similar presentations and personal invitations have been made to industry associations and furniture manufacturing associations in India and abroad.

Impressed by the scale and reputation of the mega trade show, delegations from large furniture manufacturing and woodworking industry groups in Nepal, Sri Lanka, Bangladesh, Malaysia, Myanmar, Bhutan, Thailand, Indonesia and the Philippines have assured attendance in February.

Among the several industry associations are Asmino (the Indonesian furniture industry and handicrafts association), Malaysia Furniture Entrepreneur Association, Malaysian Furniture Industry Council, the Singapore Furniture Association, the Thai Furniture Association, Federation of Chambers of Commerce & Industry of Sri Lanka (FCCISL), and Chamber of Furniture Industries of the Philippines.

Similar readiness has been expressed by timber producing and exporting hot-spots of Myanmar, Malaysia, Indonesia and Thailand. Among them are the Myanmar Forest Products and Timber Merchants' Association,

the Indonesian Sawmills and Woodworking Association, the Timber Exporters' Association of Malaysia, and the Bangladesh Furniture Exporters' Association, which has 16 big-time exporters among its members.

There will be business delegations from the Nepal Furniture and Furnishing Association and the Association of Wood-Based Industries of Bhutan.

On the basis of the enthusiasm and nature of inquiries generated at the debut of MumbaiWood (1-3 October, 2013), several delegations of timber merchants, carpenters, particle board manufacturers, interior designers and architects from various parts of Western India will also visit IndiaWood.

More than 2,50,000 invitations have been extended to registered saw millers, hardware dealers & resellers, interior decorators, woodworkers, timber & lumber dealers and distributors in India. Of these, 45,000 personal invitations have been extended to visitors to earlier editions of IndiaWood.

PDA Trade Fairs has also tied up with leading trade magazines in India and abroad to promote and report



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## Free bus services

FREE shuttle (bus) services will operate from multiple pick-up & drop points in Bangalore city from 21-25 February to and from the Bangalore International Exhibition Centre (BIEC).

For more information and route map, log on to [www.indiawood.com](http://www.indiawood.com)

on the show. Advertisements in leading regional dailies, radio jingles on popular radio channels, poster campaigns across South Indian metros and outdoor advertising through billboards is also sure to draw more visitors.

### Trade & Govt. Support

IndiaWood is a comprehensive platform for the woodworking

industry, supported and endorsed by the Export Promotion Council for Handicrafts (EPCH), the Indian Plywood Industries Research and Training Institute (IPIRTI), the Institute of Wood Science & Technology (IWST), the National Bamboo Mission and the National Small Industries Corporation (NSIC) to name a few.

IndiaWood is also supported and represented by various timber councils like the American Hardwood Export Council (AHEC), American Softwood, and the Malaysian, Canadian and French timber councils. Many other industry associations and overseas companies from 30 countries also lend their professional support and recognition. 

## Get your badge online

Interested visitors can get FREE visitor badges delivered to their doorstep by registering online at [www.indiawood.com](http://www.indiawood.com).

For assistance and queries, contact Mr. Siva Kumar on +919036900075 ([shiva@pdatradefairs.com](mailto:shiva@pdatradefairs.com)) or Mr. Niketh Kumar Mandal on +919986061956 ([niketh@pdatradefairs.com](mailto:niketh@pdatradefairs.com)).



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With IndiaWood 2014 looming large over everyone's calendar of important events, here is what some of the exhibitors had to say of Asia's premier woodworking trade show:



## Bureau Veritas cuts legal hassles

Bureau Veritas Certification has launched a dedicated due diligence solution (DDS) for the forest, pulp & paper, packaging and wood industries, in response to the recent application of the European Union Timber Regulation 995/2010 (EUTR). Forty clients in key areas – among them China, South-East Asia and Europe – have already implemented the DDS.

The aim of this new regulation is to eradicate illegal wood products on the European market: similar to measures taken in the USA and Australia. Illegal logging and deforestation is a global problem resulting in negative environmental, social and economic impacts. These new legal frameworks not only require wood exporting countries but also final consumers to assume responsibility for the forests of the world.

To tackle this issue, the EUTR mandates all actors importing wood-based products into Europe to demonstrate that the wood from these products has been harvested in compliance with the local regulations in the country of origin. Outside Europe, global suppliers are therefore required to demonstrate the legal origin of their products in order to access the European market.

[www.in.bureauveritas.com](http://www.in.bureauveritas.com)

H3-LL, Stall A-133

## Fritz Kohl brings incomparable veneers

For the third time in a row, Fritz Kohl Veneer Mill is participating with a booth in Bangalore's mega exhibition. With the variety of over 150 different species of veneer, Fritz Kohl is offering endless and incomparable possibilities for designers and architects to show and integrate wood in their projects. Apart from its beauty, veneer is the most efficient product to conserve the world's forests, due to the fact that all parts of the tree get used.

In combination with Fritz Kohl's COC, FSC and PEFC certification, it is assured that all aspects of conservation of forests are controlled and the products are environmentally safe. Fritz Kohl is presenting a selection of veneered panels in precious and rare species. Samples of all species available will be shown as well, including rough cut and smoked veneers.

Solid table tops are a second attraction at the stall: an original Mapa Burl table top will be displayed together with photos of all table tops available. The highly skilled staff is ready to answer all relevant questions about wood and veneers. Fritz Kohl Veneer Mill still produces all its veneers in Germany itself – the guarantee for top quality and exclusive service.

[www.fritz-kohl.de](http://www.fritz-kohl.de)

H3-LL, Stall E-501

## CargoTech, Topline-XL and more from Hettich

Hettich entered India in 2000-01. Hettich India's success as the undisputed market leader has been built on four enduring values: Quality, Innovation, close Cooperation with its customers and absolute Reliability. Hettich inspires its customers with its ideas and passion.

In its 125th anniversary year (1888-2013) Hettich has put up a state-of-the-art plant in Baroda (Gujarat) with an investment of over Rs 100 crore to manufacture wire products – aptly named CargoTech – which will be showcased at its booth in the German Pavilion. They are modular in concept and can be easily fitted to any standard readymade drawer cabinet, apart from many other innovative features, which our customers, trade partners, architects and interior designers can experience firsthand at the fair.

The quality of these baskets is a given, since these will be exported from India for the global consumption of Hettich. We will also showcase many of our latest products at our booth in IndiaWood for Indian customers, especially the new sliding systems, Inline-XL and Topline-XL, the ultimate drawer system, ArciTech, and many more.

[www.in.hettich.com](http://www.in.hettich.com)

H1-UL, Stall C-302

## Jai Industries: leader on upswing

Jai Industries has always been the leader in the solid wood machinery market, and in the past decade acquired the status of leader in the panel processing machinery market. It has to its credit the highest number of machines sold in that segment.

Jai-Modula's 'Pride of India' range has achieved tremendous success: meeting European standards of precision, but manufactured in India by Jai. These machines have been designed for Indian conditions, within Indian cost parameters and totally reliable service and spares availability. Jai is launching quite a few new 'Pride of India' machines at IndiaWood 2014.

As part of its strategic alliance with Italy's SCM Group, Jai Industries will have a separate stall for the display and demo of SCM machines at IndiaWood, where company experts can explain the machines' unique features and guide you on your selection.

SCM offers high-end machines like CNC router, beam saw, CNC Universal boring and grooving centre, auto edge bander, wide-belt sander, surface and thickness planer, and stand-alone surfacer or thicknesser. Jai staff will be present in full strength to guide, support and facilitate machine selection by offering special deals.

[www.jaiindustries.com](http://www.jaiindustries.com)

H2-LL, Stall B-202

## End obsession with timber batten infill

In India we still utilize timber batten infill in flush and skin doors; a primitive process, discarded globally decades back. We must say goodbye to our obsession for timber-filled doors. The concept of recycling wood scrap as an infill in doors is no more a reality as saw mill operations are getting smaller with reduction of timber availability.

On the other hand there is an explosion of construction due to 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. There has already been a switch to eco-friendly infill boards like the tubular boards (100% recycled wood waste product) in other countries.

Tubular infill boards are part of eco-friendly and green products initiative, replacing 80% of the timber used internally as door infill, which dramatically improves the performance of the door. Few people in India know that Sauerland infill board is in use by the door industry for 63 years as a timber substitute, which means it has global acceptance.

[www.sauerlandspanplatte.de](http://www.sauerlandspanplatte.de)

H3-LL, Stall E-500

# WOODNEWS Seminar on Feb. 21 & 22



After four consecutive years of strong growth, WoodNews is organizing the 6th edition of 'WoodNews Seminar' concurrently with IndiaWood 2014, to be held on 21st and 22nd February, 2014, at Bangalore International Exhibition Centre, Bangalore.

The seminar will be addressed by eminent speakers from India and abroad on various topics: Modern Kitchens, Better Doors, Office Interiors and Retail Furniture. Details will be made available at the trade show venue.

IndiaWood 2014 is expected to attract a captive audience of well over 40,000 visitors. Several of them will schedule their time to attend the seminar on the first two days of the show.

Approximately 200 delegates are expected in each session, including manufacturers of furniture, kitchens, wardrobes, office interiors, other wood-based products, timber importers and dealers, interior designers and architects. This will be enhanced by ample networking activities.

The overwhelming response in the previous editions has encouraged WoodNews to bring new topics and eminent speakers to this platform. Those interested in attending are

requested to pre-register your name and reserve seats for this not-to-be-missed event!

#### Participants' Profile

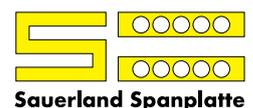
- Architects
- Interior Designers
- Door manufacturers
- Kitchen manufacturers & contractors
- Furniture manufacturers
- Timber importers
- Manufacturers of wood-based articles

**For pre-registration, email:**  
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**For speaking slots and sponsorship options, email:**  
binesh@pdatrademedia.com  
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## Some Speakers

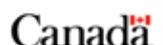
**Mr. Hubertus Floetotto,**  
Managing Director, Sauerland  
Spanplatten, Germany.



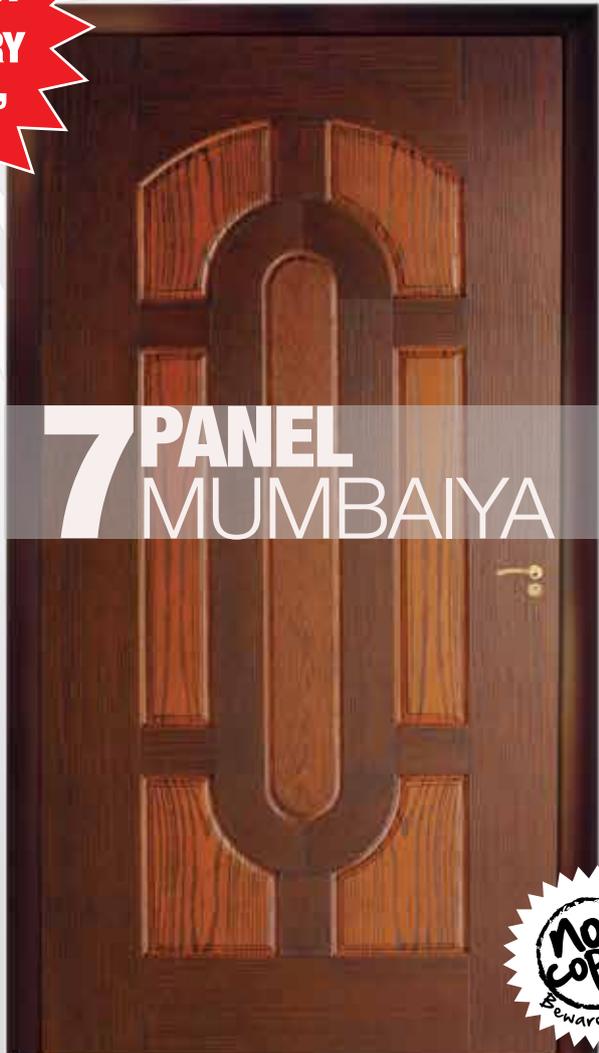
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# Wemhöner lacquering & printing technology



The MasterLine with two printing colors.

The product group Wemhöner MasterLine stands for economical, high-quality surface finishing of medium and high density fibre (MDF & HDF) particleboard or other flat raw boards and work pieces.

Due to the modular design of the MasterLine it can also be easily integrated into existing printing and lacquering lines. These production lines come with capacities ranging from 15 to 130 metres/minute and working widths from 1.300 mm to 2.600 mm.

Processed are pigment and transparent lacquers and colors, water-based UV lacquers, 100% UV lacquers, printing colors, PU lacquers, ink, etc.

Amongst others, the MasterLine is designed for finishing large HDF boards with a possible feed speed of 120 metres/minute. HDF boards of 1.5-mm to 8-mm thickness are coated with ecologically harmless systems.

The high feed speed and the maximum board sizes (2.550 mm to 6.200 mm) produce an hourly output of up to 15 square metres of printed boards, which corresponds to an area of

almost three soccer pitches.

The Wemhöner MasterLine starts with the feeding of HDF raw boards. Material data – such as thickness, length and width – can be fed via process visualization or directly via interface out of the “job preparation”.

The priming and lacquering is carried out by means of roller application machines type Wemhöner

MasterCoater. Drying of the applied water-based lacquers takes place in high efficiency air jet dryers type Wemhöner MasterDryer.

The air speed of the dryers is adjusted by frequency converters via the process visualization, depending on the product.

The heart of the MasterLine is the Wemhöner MasterPrinter-2600. On



Precision in series at Wemhöner in Herford, Germany.





 Overall view of a MasterLine for HDF upgrading in Poland.

the alignment roller conveyor in front of the printing machine the HDF boards are aligned accurately in transport direction. The following vacuum transport device carries the fixed work pieces to the printing machine.

The following register-accurate printing takes place through two Wemhöner MasterPrinter-2600s. Alignment roller conveyors, vacuum transport and printing machines are synchronized via the Wemhöner MasterControl. The register is repeatedly exact over the complete board length. The amount of printing machines can be increased according to quality level.

The ultra-violet (UV) top coat is applied via two roller application machines. The hardening of the UV lacquer takes place via UV modules. Between the two roller application machines a UV dryer is arranged for thickening the first top coat layer.

The UV dryer is designed modular. Always two UV modules build one UV radiator in line with a width of 2.700 mm. The capacity of the radiators is 120 W/cm.

At the end of the line the lacquered panels are stacked onto pallets in a hopper stacking unit, which is especially designed for high capacity of 20 cycles per minute. Two stacking boxes are available for the completed boards.

As for the feeding unit, the work piece parameters of the lacquered HDF boards are transmitted from the line control to the stacking unit. The alignments are made automatically. The change between the stacking boxes takes place without any interruption of the production process.

[www.wemhoener.de](http://www.wemhoener.de)



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**Wemhöner Surface Technologies GmbH & Co. KG**  
Germany  
[www.wemhoener.de](http://www.wemhoener.de)

## Triple treat from Bluecoat



### Bluecoat Star hotmelts

Bluecoat Star hotmelts are ethylene vinyl acetate (EVA)-based adhesives specially formulated for edge banding application

Bluecoat Star hotmelt HT is specially designed for continuous edge banding machine with application temperature of 180°C-200°C

Bluecoat Star hotmelt LT is specially designed for semi-automatic edge banding machine with application temperature of 130°C-150°C

Bluecoat Star hotmelt adhesives are used to bond solid wood, HPL, veneer, PVC, etc.



### Bluecoat WP1 (PVC to Wood)

Bluecoat WP1 is a water-based adhesive which is suitable for bonding of PVC tapes & sheets to wood & MDF. It is also used for bonding manual edge banding PVC strip to MDF, particle board, ply, etc. without using any edge banding machine. It should be applied on one surface – wooden surface – only.

Features:

- Single side application
- Excellent bonding, compared to solvent-based adhesive
- High heat resistance
- Easy to apply
- Low VOC



### Bluecoat DX Plus (Advance D3 adhesive)

Bluecoat DX plus is advance poly vinyl acetate (PVA)-based white adhesive for edge bonding, finger jointing, handicraft, modular furniture, cold & hot press, post forming application, wooden flooring, etc.

Features:

- Tested and approved by leading German laboratory
- Low viscosity
- Better cold weather performance
- Excellent coverage
- Hot and cold water-proof
- Low VOC
- Faster drying time

Bluecoat DX plus conforms to EN 204/D3 standards.

[www.bluecoatindia.com](http://www.bluecoatindia.com)

## 'Brilliant Surfaces' from Bürkle

'Brilliant Surfaces' will be the motto of Robert Bürkle GmbH at IndiaWood 2014. This year the Freudenstadt-based company will show its state-of-the-art pressing and coating equipment, apart from a line concept for 3D foil lamination of furniture components and a laminating line for PUR hotmelt. In the pressing and coating technique Bürkle is a technology and market leader, supplying machines, lines and systems for the manufacture and surface

finishing of doors, flooring, furniture components and wood-based panels.

The product range also comprises turnkey machines for the manufacture of parquet as well as finishing, grain printing and digital printing machines. Bürkle also specializes in foil laminating and throughfeed press lines with fully-automatic veneer handling. Thermo-forming lamination lines producing 3D furniture fronts are part of the company's repertoire.

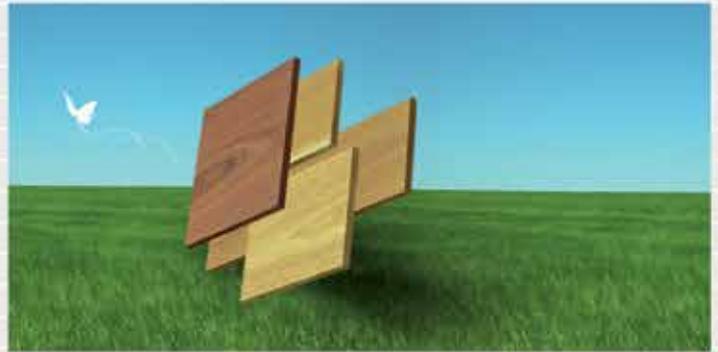
On a newly developed machine Bürkle will apply PUR hotmelt onto flat work pieces. By dint of special application and doctor rollers being heated by thermal oil, ideal temperature accuracy is achieved on the roller surface. This is absolutely necessary for the glues to be processed in order to attain high qualities. By using PUR hotmelt a new level of high-gloss lamination is achieved with highest surface qualities.

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# B.A. Group holds edge with imported veneers

The B.A. Group, a 50-year-old business house based in South India, has entered into a strategic alliance with M/s Vietland Import Export Production, a Vietnam-based core veneer manufacturer.

Advantages of Vietnam core veneer supplied by the B.A. Group:

- **Thickness:** The buyer gets the exact thickness ordered from B.A. Group; India-made veneers are thinner, which means a benefit of up to 15% to the imported veneer users
- **Width:** Imported veneers come in 640mm, whereas that of local veneers varies from 26 inches to 2 inches
- **Smoothness:** Percentage of smooth veneers is very high in imported veneers, as compared to core veneers from local suppliers
- **Assembly:** Availability of 100% wider veneers reduces the assembly time, increasing production and bringing down overhead costs
- **Joints:** Less number of joints gives our sheets negligible overlaps and gaps, improving the quality of the finished panels



 Core veneer imported from Vietnam.

- **Moisture:** Locally made veneers are wet (moisture content of more than 30%) and hence need drying. This is time-consuming and involves extra expense. Imported veneers are sun-dried and need no drying, cutting on time and expense
- **Pedal Chopping:** In case of imported veneers pedal chopping

is reduced as the edges are square. A lot of wastage occurs in locally supplied veneers

- **Density:** The density of imported veneer is higher than local veneer, which helps film-faced plywood manufacturers to get higher weight for their finished products.

[www.bagrouphumbay.com](http://www.bagrouphumbay.com)



## 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](mailto: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.

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# Robland offers value for money, feature-loaded machines

Robland Vebim Machinery is now entering its fourth successful year of operations in India as a direct venture, and was one of the first to market its woodworking machinery through a distributor in southern India more than 12 years ago.

Robland has also sold in the recent past a good number of popular models in panel saws like the Z3200 and the Sigma, which are splendid value-for-money machines. The E2800, their newer innovation, is a thrifty panel saw machine with a 4HP main saw motor. It is sold at an unbelievable price.

- 426-mm width, making it the only one with this size
- 7.5 HP/0.75 HP are the main & scoring saw motor capacities
- 38 balls, acting like bearings (19 on either side)
- Extra support fence to facilitate easy movement of operator
- Mitre fence is standard fitment
- 1380-mm rip fence
- 1800-mm cross cut fence
- Maximum panel bearing weight is 275kg
- 0-45 degrees tilting facility

Z3200. The weight of the Sigma is 1050 kg. There is also a considerable difference in the price compared to the Z3200.

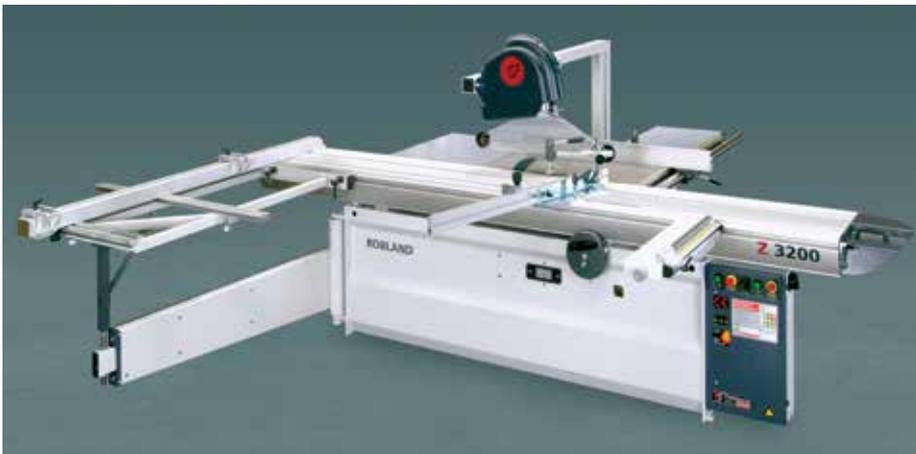


*Detail of the BM21, a fine multi-spindle boring machine.*

The BM21 is a fine multi-spindle boring machine with a sturdy and accurate system to guide all drilling operations required in modular wood furniture manufacturing. A single head which can be adjusted pneumatically by a turn of a switch makes the machine ready for operation, whether in the horizontal or the vertical direction. A 21-spindle boring head is assembled with a high degree in accuracy to deliver trouble-free operation and maintenance.

The T120, with its unmatched features, is probably the sturdiest of the spindle molders to be manufactured; and an interchangeable spindle shaft (30/40/50mm) can be fitted on request.

The machine has a fixed spindle and can accommodate a maximum tool diameter of 250 mm and has a unique revolver stopping system in eight positions. The machine is also available with an extended table and optional fitments like a tenoning attachment. The T110 is another



*The Z3200 panel saw is the heaviest in its category and also the most affordable.*

The Z3200 panel saw is not only the heaviest (1,200 kg) in its category, but also the most affordable one. Being a fully European built unit, it comes straight out of the state-of-the-art plant in Belgium. Some outstanding features of this machine are:

- 3200-mm sliding table with holder plate and handle

- Unique reference system with an unbreakable lens in the middle
- Speeds of 3000, 4000 & 5000 rpm with easy change-over.

The Sigma is a machine with three variable speeds and is available with 5.5 HP/0.75 HP motors, but without the mitre gauge and extra support fence. All other features match the

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ROBLAND – masters in combination units, can provide a Panel Saw, Surfacers, Thicknesser, Mortising Unit and Spindle Moulder, all combined into one compact machine – ideal for precision works in small units and also for artisans in carpentry, handicrafts, etc. Models with bed sizes like 310mm, 410mm and 510mm are available on ex stock basis at our Bangalore Showroom, where customers can drop in and get a feel for our products on display.



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The T120 is a sturdy spindle molder.

machine with tilting facility and is more or less similar to the T120. Factories using only solid wood in their production – where limited batch quantities are processed with

frequent changes in sizes and shapes – can opt for the popular NLX310 and HX310 Pro. These have inbuilt sliding tables, spindle motors, planers, thicknessers and mortising units.

Ideal for small industries, this unit is highly productive wherever accuracy and finish is concerned. It requires very less space, only one or two operators, and consumes less power and is economically priced.

Robland manufactures high capacity machinery for heavy and continuous production for planing and sizing. Popular models sold in India are the S510 planer with 510-mm table, the D510 thicknesser and SD510 planer/



The HX310-Pro has inbuilt sliding table, spindle motor, planer, thicknesser and a mortising unit.

thicknesser. It also supplies high quality dust collectors of 2 HP and 3 HP capacities.

[www.robland.com](http://www.robland.com)

Hall No. H2-LL | Stall No. C-310

# Umaboy: perfect fit for various requirements



Vacuum press.

New generation machines from Umaboy include CNC routers and vacuum press, especially designed for the door and panel processing industry. They help deliver good quality products, and that too at competitive pricing in the Indian market.

A genuine Indian manufacturer, Umaboy has various models with suitable technical features to help customers choose the perfect fit for their requirements.

Umaboy offers CNC machines with and without vacuum table, Italian spindles, stepper and servo motors,

suitable for various applications. Umaboy's machines serve various applications like:

- Flush Door
- Office Furniture (work stations, through cut, weave board, etc.)
- Pattern Industry
- Machines customized to specific applications

The Umaboy vacuum press is specially designed for applying PVC sheets, lamination papers – and even veneers – uniformly on various plain surfaces of doors, raw boards of MDF, ply or particle boards.



CNC router.

It is available in single door as well as in double trolley for faster production. A specially designed vacuum pump ensures sufficient amount of suction of applied sheet on job pieces and delivers perfect output.

The specially designed silicon membrane sheet comes as standard supply, which can help to apply 4-mm-thick veneer uniformly. Infra-red heaters are also fitted to ensure low electricity cost – which helps entrepreneurs earn extra profit.

[www.shreeumiya.com](http://www.shreeumiya.com)

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Automatic Edge Bander-USB-5/06



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# WoodTech brings Barberan printing, hot-coating lines

WoodTech one of the leaders in woodworking industry in India will be participating in the forthcoming IndiaWood 2014 with all their principals, such as Holytek, Leadermac, Yowcherng, Powermax, Innovator and Barberan.

WoodTech is also launching in India the digital printing line and hot coating line from the Spanish company, Barberan, a market leader in surface finishing technology.

## Digital Printing Line:

The contact-free printing system based on the 'BIJ Single Pass' technology prints digital images on multiple substrate types on an industrial level. Barberan creates its own technologies in mechanics, electronics and software. It has vast experience in the treatment of surfaces and offers not just a printing machine, but a complete solution for each one of the processes involved in a printing line.

## Remarkable features:

- High quality printing of digital images on multiple substrate types
- Speed: 10-60 metres per minute
- Excellent relation between color intensity and drop size
- More than 1400 dpi optical resolution
- Modular printing head construction
- Color management integrated in the industrial process



- Instantaneous design changes during printing
- Controlled and visualized ink costs
- Minimum maintenance & labor costs.

## Hot Coating Line:

This new lacquering process, easy and economical, is based on a new machine developed by Barberan that applies a new kind of polyurethane hotmelt lacquer. The unique characteristics of this lacquer, together with the MENH machine developed by Barberan, generates two main advantages: reduced dimensions of the line and lower investment and operating costs.

## Remarkable features:

- Single coat application of grammage (10-50 gsm) with highest covering rate
- Permits smoothing by roller while the product is still wet; avoiding need of sanding work piece later

- No need for drying before final UV top-coat application

Holytek will launch its new CNC router range at IndiaWood. Its new flat-bed Models NM-48 and NH-48-3 have advanced features, combined with economical price. The NH-48-3 is equipped with three independent heads that can work on doors. Out of the three heads, one head can tilt up to 1800, to carry out horizontal routing.

This machine is specially designed for door manufacturing where, in one single setting, complete routing, door lock and hinge recess can be completed. It is a first-in-industry machine from Holytek. It comes with HSD spindles (6 kW each) and can carry out any kind of routing.

[www.woodtech.in](http://www.woodtech.in)



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- Appliance Lift



Hall No. H2-UJ | Stall No. B-202a

# Time to explore advantages of gloss panels from Kastamonu



### Glossmax:

Glossmax high-gloss boards by Kastamonu are decorative shiny surface wood panels that are put through various industrial processes with an advanced and unique technology and achieved through the application of adhesive and ultraviolet (UV) lacquer to the single surface of medium density fibre (MDF) or chip boards.

During the hot coating application, which provides excellent adherence to melamine surfaces, polyurethane (PUR) adhesive coating is applied onto the material surface. After the chemical curing of the PUR adhesive an outstanding scratch, shock and wear resistant hard surface is achieved.

The PUR material is also durable against UV rays and chemicals. The top layer, which is applied immediately afterwards and which hardens under UV rays, provides an excellent degree of gloss. Dimension is 18x 2100x 2800mm.

### Glossplus :

Glossplus high-gloss boards are coated with a polyethylene terephthalate (PET) foil, which is resistant to UV rays, applied to the wood panel using a brand new technique, which imparts a level of gloss that exceeds 85°. They show a high resistance to wear, impacts and scratches.

This feature ensures that damages that may occur during production and application are reduced to a minimum. They have a high level of resistance to sunrays and fading. The colors and gloss of the patterns are maintained over the years and look as if they are brand new.

The fact that they are hygienic, moisture-resistant, long lasting and easy to clean adds value to the area of application. They do not contain any materials that are harmful to health. One side of the decorative panel is glossy, while the other is coated with the same decorative paper as the front surface. Dimension is 18x 1220x 2800mm.

### New models :

Kastamonu is launching three new designs of Doorpan in the beginning of 2014. They are named Myra, Bergama and Truva. After the success of Smirna three-panel oval model in 2013, the new models will continue to be introduced specially for the expanding Indian market.

[www.keas.com.tr](http://www.keas.com.tr)



(L-R) Myra, Bergama and Truva.



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# SCM unveils universal single-sided edge bander

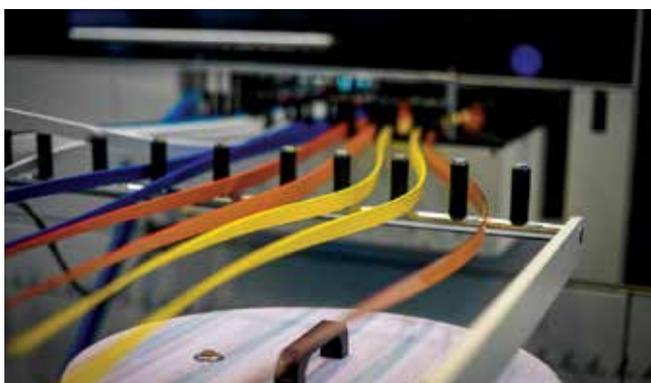
'Technology Days: Edge banding & More', held at Scm Group's Stefani plant Italy in October last, hit just the right note. The centre stage was taken up by the new 'Solution HD B' at the event, attended by more than 300 important customers from 23 countries.

'Solution HD B' is designed to offer the best performance with the minimum investment, guaranteeing reliability and the possibility to easily program any machining operation. All five configurations of 'Solution HD B' are equipped with the 'Sav€nergy' system that ensures energy savings of up to 9% and at least 20 km of edge banding saved per year.

A good 16 different, fully operating solutions demonstrated the Scm Group's ability to meet the needs of every operator and satisfy every type of job order. These 16 solutions focus on the real needs of a market constantly searching for improved flexibility, automation and cost reduction, where the absolute quality of the edge banding is a fundamental pre-requisite.

The 'Solution HD B' is an electronic single-sided edge banding machine that is truly universal – it can attach melamine-coated edges or edges in ABS, PVC, PMMA and other materials in every possible finish; as well as pre-cut veneer and wooden strips.

It is highly productive, with feed speeds of up to 30 metres per minute: a solution designed to offer the best performance with the minimum investment, guaranteeing reliability



and the possibility to easily program any machining operation, thanks to an ultra-modern 3D interface with the user.

Among the many technological features is the twin-motor panel rounding tool that produces a high-quality finish, and the belt presser that ensures accurate, vibration-free piece transportation.

All five configurations (a range that will satisfy any process requirement) are equipped with the 'Sav€nergy' system, with a suction system that draws in over 98% of chips.

## Stefani system

The event confirmed Scm Group's vocation as a reference partner for large systems too. This was demonstrated by an extremely powerful edge banding line: within roughly 40 metres, there are two 2-sided Stefani 'Evolution SB laserline' edge banding machines that guarantee absolute quality and optimum productivity at around 5,000 panels per shift.

Structured to work easily 24 hours a day, the line is equipped with four laser systems that the customer

chooses. The aim is to guarantee the speed needed for the production cycles envisaged, but without compromising the quality in any way.

More frequently, designers prefer surfaces without a continuous profile, without the addition of opening accessories; this means providing cabinet doors and drawers with the necessary ergonomic space for inserting

a hand, or lateral profiles for easy use and opening.

This new design interpretation is becoming increasingly popular, and can nowadays be obtained via a less costly method compared, for example, with the application of rigid aluminium elements on the edges of the door or methods involving profiling and subsequent varnishing.

The panel is merely milled to create a 'J' shape. Then everything, including the cavity, is edge banded using a more up-to-date version of the traditional soft-forming technique. Whether it's a kitchen cupboard door, a drawer, or a big wardrobe door, the problem is solved thanks to the Stefani system.

Scm Group also introduced the 'Slim-Line' system, the application of glue on the edge, rather than on the panel. This means better distribution and an almost invisible layer of glue. A solution that ensures exceptional aesthetic qualities with far less investment compared with laser technology, 50 percent glue savings and excellent performance.

[www.scmgroup.com](http://www.scmgroup.com)

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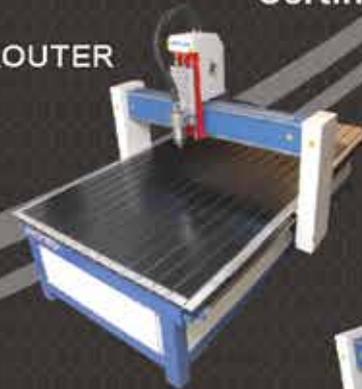


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AND RIGHT



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(with German Pump)



▶ DOUBLE GANDRY



▶ Panel saw



▶ CNC WOOD TURNING LATHE



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Hall No. H2-UJ | Stall No. D-412

# Value for money from Rasa Engineering

Rasa Engineering Enterprises is an importer and manufacturer of woodworking machinery and tools. It has been serving Indian manufacturers since 1998. At present most of its machines and tools are selected and imported from China and Hong Kong. Rasa offers quality machines which provide economical selection and are "value for money".

### MXH-F350:

MXH-F350 is a variable speed manual edge banding machine, whose speed of tape feed can be controlled between 3 and 15 metres/minute. It is suitable for edge banding



tapes of 0.3-3mm thickness and 8-50mm width on straight or curved edges.

### Aquila:

Aquila brand TCT multi-boring drill and router bits are available in various diameters ranging from 3mm to 35mm, and lengths from 57mm to 70mm.



### JBD-80:

JBD-80 is a portable edge banding machine for hand-held or table-mounted operations. The single-phase, 230-Volt machine is ideal for site work, as well as for small shop work.



### MX-5115:

MX-5115 is a router-moulder for inverted router operation. It substitutes a moulder machine with much higher (18,000 rpm) speed and 3-HP brushless 3-phase motor. [www.rasaengineering.com](http://www.rasaengineering.com)



Hall No. H2-UJ | Stall No. B-206

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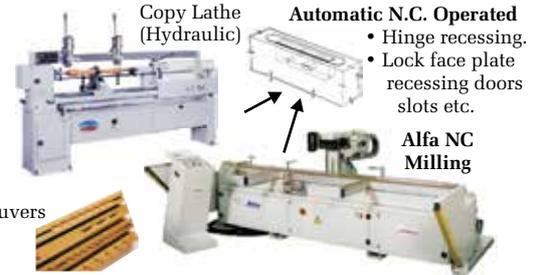
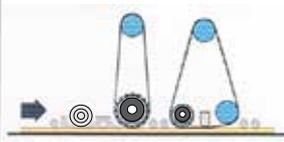
Horizontal Mill



**SANDING MAX**



Wide Belt Sander



Louvers

Profile Sander



**KUANG YUNG**



Multiple Rip Saw



Straight Line Rip Saw



Vertical Boring & Drilling Machine



Auto Panel Saw



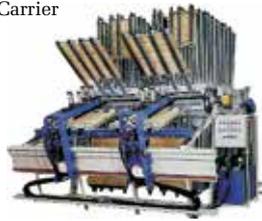
Vertical Band Re-saw



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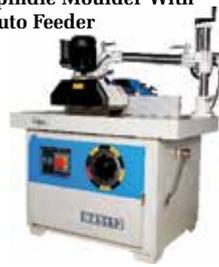
Automatic Through Feed Edge Banding  
(Compact Machine)



Manual Edge Bander



Spindle Moulder With Auto Feeder



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Hydraulic Hot Press 1/3/5 Day Light

High Speed Router



Portable Edge Bander



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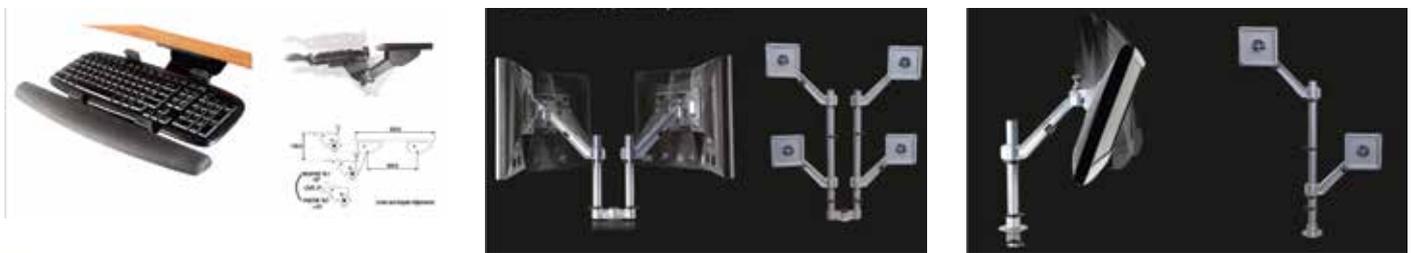
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# For the office, kitchen, shop and home

Ebco is all set to launch a few interesting new concept products at IndiaWood 2014. Among them is Ergonomics@Work: products for office desks that are designed to avoid health risks related to long working hours.



(L-R) Articulated keyboard station, flat screen holder (with double and quadruple arms) and single-arm, adjustable flat screen holder.

Ebco will also display the new Libell design concept from Peka of Switzerland, which can merge with ease in living rooms, kitchens and wardrobes.



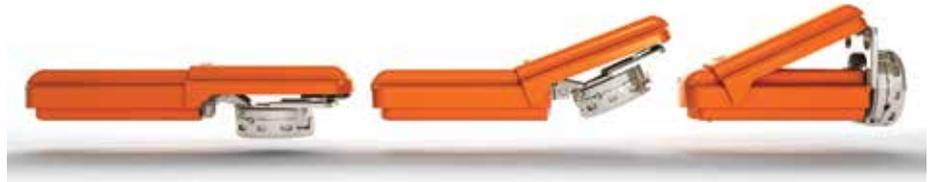
(L-R) A smart corner solution and a pullout for the kitchen, and a shoe rack for the wardrobe.

Ebco will also introduce its LED lighting system exclusively for furniture under the concept 'Emotion'. This technology offers progressively variable color temperatures, from warm white to cool white.



The extra-slim LED recessed lighting (left) is a high-efficiency system with 'plug and play' mini-connections. The Tab or panel light offers powerful but homogenous illumination.





The Italian furniture hardware specialist, Salice, will feature in Ebco's stall again, this time in an out-of-the-box design concept called Lapis.

[www.ebco.in](http://www.ebco.in)



# HR1000 is a 'Merry-Go-Round' resaw system

A sawmill's profitability is ensured by technologies that drive the production costs down and enhance the quality and output. Wood-Mizer's HR1000 Merry-Go-Round (MGR) multi-head resaw system represents an important advance in resawing technology that allows saw millers to reduce costs and increase performance.

The HR1000 MGR system automates the conversion of cants into boards by circulating the cants through the resaw automatically. It adds to the already impressive performance of Wood-Mizer's HR1000 resaw, which, depending on the number of heads assembled in the resaw line-up, can produce up to seven boards in one pass.



By allowing the cant to re-circulate to the infeed end of the resaw station, the MGR system provides for a number of benefits:

- Increases productivity by allowing for quick and smooth movement of material from the outfeed to infeed end with least amount of manual labour
- Compact design allows it to fit into crowded production environments and into existing machine line-ups
- Powered hold-down rollers and

steel track conveyor ensure tight tolerances for the most precise requirements

- The MGR, in tandem with the HR1000, is built tough to handle large sections and heavy hardwood species
- Ideal for short length pallet material manufacturing operations, or applications where accurately sized longer lengths in excess of 2 metres are required.

[www.woodmizerasia.com](http://www.woodmizerasia.com)

Hall No. H2-LL | Stall No. D-408

Hall No. H3-LL | Stall No. D-428

# Decora's Ornare high-gloss panels are a delight

Decora Kitchen Interiors Pvt. Ltd. is among pioneer panel processing companies engaged in producing finest quality



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 Fax: +91 20 40725588 Email:schmalz@schmalz.co.in

cabinet doors – especially kitchen doors, wardrobe doors, bathroom vanity doors and other home and office furniture.

Decora's product range includes PVC membrane, acrylux shutter, laminated shutters and alum-profiled shutters. Team Decora constantly innovates, upgrades and launches new products from time to time, just to ensure that customers are always pleased.

Since its inception in 2005, Decora has manufactured the most comprehensive, respected, acknowledged and accepted products in the kitchen panelling industry, offering virtually every conceivable convenience for kitchen decor. Cost-effective solutions, reliability and eye-catching appearance are some of the USPs of Decora's products.

Continuing the legacy for innovation and introduction of modern technology, Decora has introduced Ornare high-gloss acrylux panels. With this, Decora has become India's first manufacturer of high-gloss panels using the German technology of flat lamination with PUR adhesive. Most of the raw materials – such as acrylic laminate and PUR adhesive – used in Ornare are sourced from Europe.

Ornare high-gloss panels are available on MDF, plywood and other composites. It offers a wide choice of colours range: solid, metallic colours, wood grains and designer patterns. Ornare has the potential to fulfil exclusive or customised orders with world-class designs at swift delivery schedules.

[www.decora.in](http://www.decora.in) or [www.ornare.in](http://www.ornare.in).



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Flexibility of Thickness



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The Best European Technology



Matching Edge Bends available



Prompt Delivery



# REFLECTION OF PERFECTION...

ORNARE proudly launches the acrylux high gloss panels with European technology for first time in India. A breakthrough technology in decorative panels comes with a new high gloss acrylux board that provides a more superior effect compared to laminates, paint, vinyl or UV etc. Premium Acrylux High Gloss Panels can be used for:

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- Exhibitions & Promotional Activities
- Wall Cladding in Retail Outlets
- Office Furniture & Partitions
- Shelving & Display Cabinets
- Kitchen Cabinets & Doors
- Entry & Passage Doors
- Wardrobe Doors

## Why ORNARE !!

- First PUR laminating line in India to manufacture High Gloss Panels.
- Wide choice of colors, wood grains & patterns.
- Availability in MDF, Composites & Plywood.
- Customized thickness & reverse colors offered in case of bulk orders.
- All production as per EU standards.
- World class adhesive technology used.



Environment Friendly



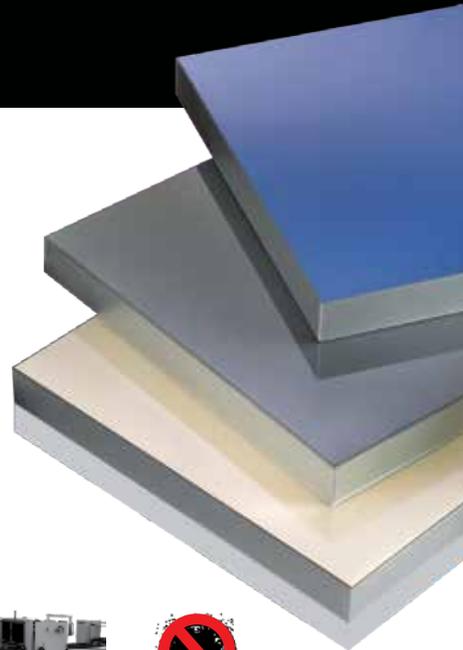
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**TRADE ENQUIRIES SOLICITED**



Hall No. H2-LL | Stall No. C-306

# Airzone launches two machines

Airzone Engineering has announced the successful launch of two home-grown machines for the woodworking industry.

The **GTPF-2800** is a throughfeed post forming machine with an automatic gluing attachment. It has PU nylon or aluminium conveyor belt for long life; holds multiple cartridges – including in the trimming and buffing units – for all profiles; ensures scratch-proof

operations due to use of silicon rubber for moulding and bending; and comes with a high-speed VFD Delta drive.

**Technical specifications:**

- Electrical input: 400V/ 50Hz
- Laminate thickness: 1 mm
- Laminate height: 70 mm
- Speed: 2-10 metres/ minute
- Trimming & buffing motors: 0.5 kW/ 2800 rpm

Glass heater (3 pieces): 7 kW  
Total electrical input: 7.25 kW.



The **BS-225** is a manual beam saw Machine that cuts single or a stack of wood-based panels precisely up to 76 mm thick. The cutting panel size is 8x4 feet, at a maximum speed of 45 metres/ minute. The main motor, rated at 10.5 HP (7.8 kW), and the scoring motor, rated at 2 HP (1.5 kW), come with VFD Delta drive and electronic control panel.



**Technical specifications:**

- Max. cutting length: 3200 mm
- Max. cutting thickness: 76 mm

- Main saw blade: 350 x 50 mm
- Speed of main saw: 4800 rpm
- Scoring saw blade: 180 x 30 mm
- Speed of scoring saw blade: 6500 rpm
- Forward speed of saw carriage: 37 metres/ minute
- Backward speed of saw carriage: 45 metres/ minute
- Pneumatic pressure: 5-6 kg/ cm2.

Hall No. H1-JUL | Stall No. B-203

# New ideas, innovative foils

Schattdecor took part in the 2013 SICAM in Pordenone (October 2013). At its booth, harmonious accentuation was provided by 19 key solids from the second edition of its Unique Colours collection, plus the successful decor printer underscored its digital print expertise with six new Digital Visions decors.

Schattdecor also drew attention to the finish foil and melamine film expertise of its Italian subsidiary in Rosate with two modern oak decors – San Remo Oak and Woodmen Oak – that bore witness to the plant’s capabilities in the area of post-impregnated foil.

Customers were particularly impressed by Noce Moscato, a new decor developed in homage to the Italian furniture market in an up-to-the-minute trend colouration. It offers expansive figuring, small knots and a varied pore pattern. A chalked

look and wire-brushed effect are further characteristics.

Dark sapwood streaks set the Brentwood Oak decor apart from other oak designs. Features include small knots and slight cracks in the side-cut crotch figures. Despite the slightly rustic look, the wood has a very fine texture and small pores.

Sibiu Larch was representative of the current trend towards coniferous woods with a synchronous melamine surface. Alternating sections of densely-packed and wide-spaced grain and the realistic look of wire-brushed wood are striking features of this decor.

Schattdecor focused on Rosate’s expanded offerings in the area of printed and surface finished decors. Over the years the Italian decor paper printing plant has built up expertise in finish foil and melamine film,



Schattdecor took part in the 2013 SICAM in Pordenone, highlighting 35 contemporary colours from its 2013-14 trend collection.

and today is equipped with not only decor printing presses but also three impregnation lines for post-foil and melamine film. These will be joined by a fourth impregnation line next summer.





Roller Press **NEW**



Smart Saw **NEW**



Throughfeed Post Form **NEW**



Manual Edge Bander **NEW**

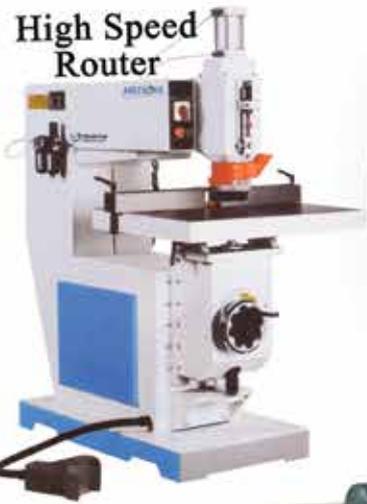


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Active Edge



Active Drill 21



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# AirForce I

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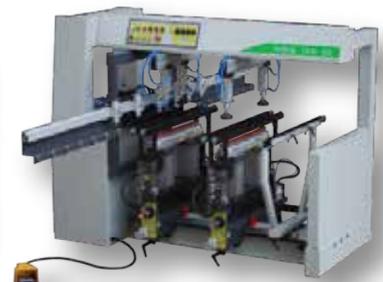
◀◀ **Unveiling this**

## Workshop Series

Sektor 350 Beam Saw



Blaze 120 Hot Press



Active Drill 65



Rover K G  
CNC Router



Jade 300 Series

**Biesse Manufacturing Co.**  
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# System >>

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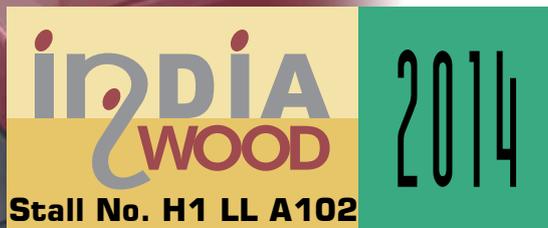
WNA Angular  
Plant for Sizing



Stream MDS Edgebander



FTT Boring & Inserting



Sektor 370 Beam Saw with Lifting Table



## Professional Series



Roxyl 6.0  
Edgebander



Skipper V31 CNC Drilling



Rover Gold 1232 CNC Router



Viet S1 Sander



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# BIESSE

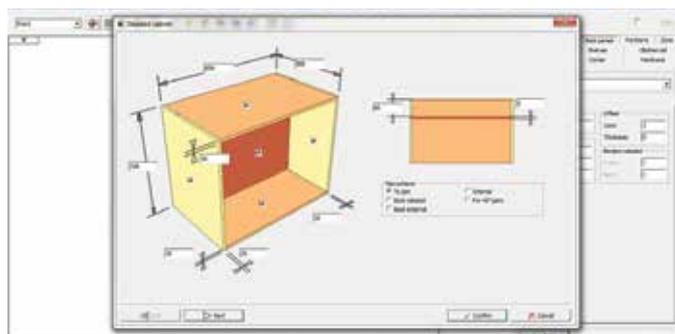
India's most Preferred & Trusted woodworking brand.

# Biesse has new software solution for panel-based furniture

Biesse CabinetEVO, the new CAD/CAM solution for cabinet design and process, is a standalone application usable either in office or directly on the machine. It can manage and generate programs for Biesse's CNC machining centres and CNC drilling machines.

It also generates CNC programs for Biesse machines which can be used either with Biesse Works or with the new Biesse CAD/CAM software, bSolid.

## Highlights:

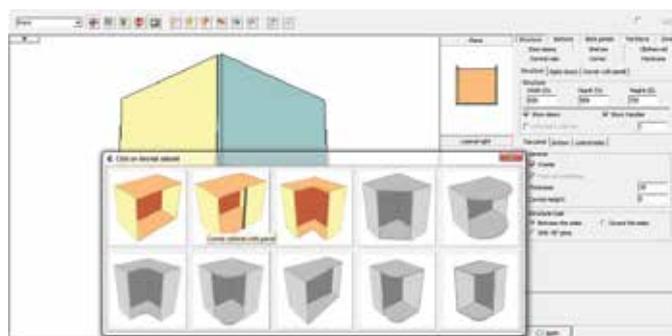


*Biesse CabinetEVO allows for design and production of cabinets based on rectangular element.*

- Rectangular cabinet design
- Defining of construction rules
- Environment for design and modification of each single cabinet (from scratch or from an existing template)
- Change the cabinet's size with automatic re-calculation of all parameters
- Add/modify/delete machinings on each cabinet element
- Environment for assembling several cabinets (single job)
- Output of file in .CIX format for Biesse Works and bSolid
- Output of the nesting project file for Biesse Nest
- Label and cutting list management
- Hardware library management

## Designing:

It is possible to define customized profile with construction rules: one profile will be used during the design of each new cabinet. Each defined profile can be saved with a different name.

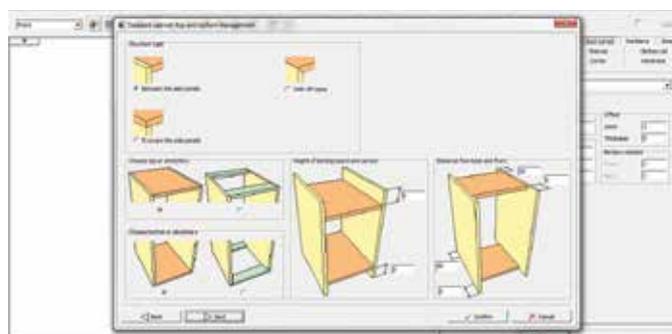


A dedicated environment for cabinet assembly is available in Biesse CabinetEVO, which allows the aligning and positioning of each single cabinet in a given space to arrive at the final assembly of furniture.

Once the assembly is made it is possible to generate the 3D views of your kitchens or furnitures projects that can be printed. Also it is possible to do the final dimensioning of the entire project.

## Default Hardware Models:

It is possible to define the standard model to be used for handles, hinges or guides, etc. Biesse CabinetEVO has an integrated wizard window which makes it easier to design any standalone furniture and straight line assembly of furniture elements from scratch.



*The software allows for different kinds of joints between sides and top or base.*

It also comprises of an environment window which shows the single element of furniture with different view modes like wireframe and shaded with several possible views like top, front, isometric, etc.

With simple steps, creation and modification of dividers, shelves, top/bottom stretchers, central uprights and back

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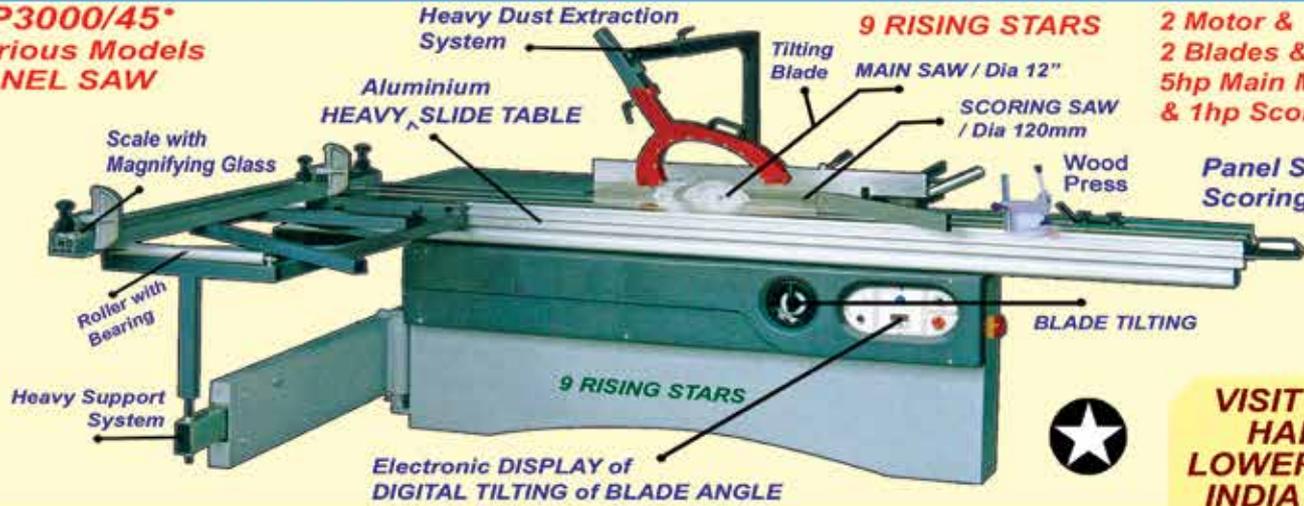
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5hp Main Motor  
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**Panel Saws with  
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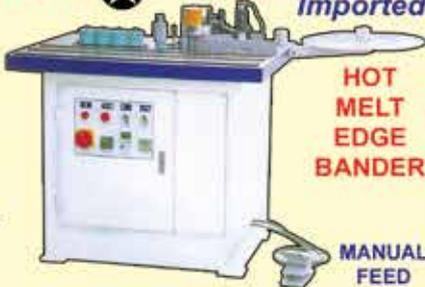
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**MAGGI ITALIAN FEEDERS**

**BORING - 323**  
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**ML393C**  
ALL IN ONE



with 3 MOTORS

ALL IN ONE WITH  
ALUMINIUM SLIDING TABLE

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With  
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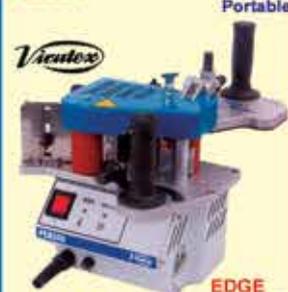
**RADIUS  
EDGE  
TRIMMING**  
With 2 Handles



**TRIMMER**

Up to  
3mm

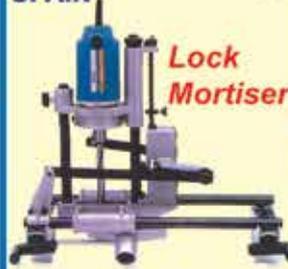
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HOT MELT Edge bender**

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Portable

**FC16S**  
SPAIN



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**Virutex**

**Lock  
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**EM25D &  
EM26D**



**FR156N**  
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**MJ2331**

Tilting Blade  
**Prelam & Boards Cutter**

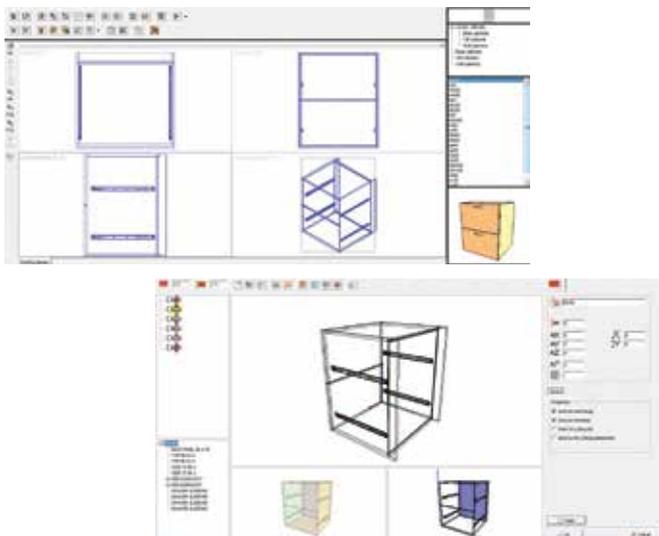


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element join types can be managed.

Biesse CabinetEVO has a standard library of hinges, knobs and handles, drawer guides, shelf supports, hangers, cabinet feet, etc. These elements can be added or removed with a single click of the button.

**Machine Interfacing:**



Customizable cutting list generated by Biesse CabinetEVO is able to group the elements by dimensions or by grain direction. This cutting list is exportable in CSV format usable by Optiplanning software for generating optimized cutting patterns for the Biesse NC beam saw machines. Biesse CabinetEVO creates all the part program files for the complete project in .CIX format, which can be imported in Biesse Works or bSolid, to be executed on machining centres.

Dedicated post processors for different Biesse machines are available on request. Different types of material with thickness of panels and edge banding types can be associated and codified for different cabinet elements

associated in a project.

This information is used during the creation of cutting list, nesting project and in the program that has to be executed on the linear edge bander.

Biesse CabinetEVO also generates the nesting project file (.XML) that can be imported in Biesse Works, which creates the necessary optimized cutting patterns for flat-bed routers.

One of the powerful features of the Biesse CabinetEVO module is to generate all the machining data for the CNC machines. The CAM module allows the user to manually add or edit the machining data like the holes (straight or angled) routings, groovings and profiling on each cabinet element within Biesse CabinetEVO.

The same machining data can also be modified after importing the .CIX files into Biesse Works or bSolid softwares. The CAM modules also generate the labelling data to print labels.

The Biesse CabinetEVO module can be upgraded by adding additional modules which has the features like:



- Complete library of readymade cabinets and hardware
- Wall and floor construction
- Photo-realistic 3D images and light management
- Single panel commands to design single panel of any shape with production information
- Management of title blocks and print previews
- Quotation module for generating offers
- Requirement module for generation of complete bill of materials
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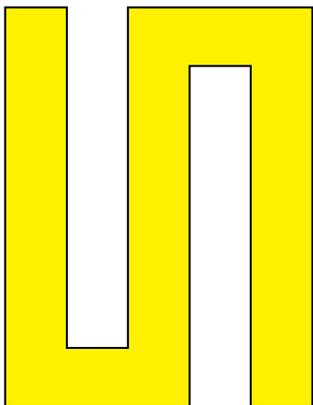
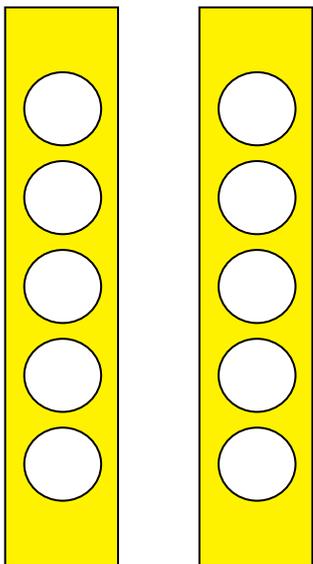
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# Need to turn over to new Green door specifications



## 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/m<sup>3</sup>). 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](mailto:sleekboards@gmail.com), or visit [www.sauerland-spanplatte.de](http://www.sauerland-spanplatte.de)).




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

# EFL makes its business 'Entrepreneur-Friendly Loans'



With more than two decades of experience in India, Electronica Finance Ltd. (EFL) is a leading non-banking finance company (NBFC) focusing on the macro, small and medium enterprises (MSMEs) in the country. It has emerged as the market leader with more than 6,500 satisfied customers who are taken care of through EFL's 35 main branches. *WoodNews* corresponded with EFL's Managing Director, **Ms Shilpa Pophale**, to find out what the woodworking sector needs, and what makes her enterprise tick. Excerpts:





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**From being a machine manufacturer in the 1990s, Electronica expanded into finance for entrepreneurs in the MSME sector. What motivated the group into taking such a step?**

Being a machinery manufacturer for more than 15 years, we witnessed the difficulties the MSME entrepreneurs faced in procuring finance for their machines. The banks required a huge list of documents – and even after receiving them, they took a long time to decide whether or not to lend.

Therefore, we decided to set up Electronica Finance Limited as a financier for self-manufactured machines. Later on, after witnessing the success we had with financing our own machines, we started financing machines manufactured by other leading manufacturers, both in the domestic and imported machines space.

**How important is the role and scale of operations of NBFCs in nurturing the MSME sector across the country?**

The 10th Plan document of the Government of India envisaged a special role for the MSMEs stating: “Growth as planned will come from a sharp step-up in industrial and services growth, spurred by MSMEs”. However, the growth of the MSMEs sector has since remained stunted. The hard fact is that the sector remains unorganized or disorganized in the absence of any workable blueprint for the development and growth of the sector.

There is little doubt that the sector provides large scale employment, effective mobilization of resources of capital and skills, which would otherwise remain unutilized, particularly in rural and backward areas, if not cared for properly. However, a major impediment in the road for growth is the absence of free credit flow. This handicap has not been adequately addressed by the financial system operating in India. Therefore, the role of NBFCs has



## 35 branches, 25 locations

EFL has branches in the National Capital Region (Delhi, Ghaziabad & Noida), Haryana (Gurgaon & Faridabad), Rajasthan (Jaipur), Punjab (Chandigarh & Ludhiana), Madhya Pradesh (Indore), Gujarat (Ahmedabad, Baroda, Surat & Rajkot), Maharashtra (Mumbai, Vasai, Vashi, Pune, Nashik, Kolhapur & Aurangabad), Karnataka (Bangalore), Andhra Pradesh (Hyderabad) and Tamil Nadu (Chennai, Coimbatore & Trichy). For details visit [www.efl.co.in](http://www.efl.co.in).

assumed greater attention in the last couple of years. Through faster processing of loans and better understanding of businesses, NBFCs in India have played a key role in hand-holding the sector towards a growth path. NBFCs have done well to bridge the big gap between banks and small entrepreneurs.

**Where have banks failed in winning the trust and cooperation of small entrepreneurs? Where do banks hold an advantage over NBFCs?**

When you think of applying for a loan, you think of a long application form, an even longer list of documents, continuous follow-up with the bank for over two months, trying to make them understand your business. In the end – if you are lucky – your loan is sanctioned. Unfortunately, by that time your order has passed to someone else and you no longer require the loan.

It is true that we cannot compete directly with banks in terms of rates, but we have tried to operate at a level

which is close to bank rates. That said, it is evident that banks cannot compete with us in terms of speed and accessibility. While we have disbursed loans even within 7 days, banks take at least 30 days to process a loan. For an MSME entrepreneur, timing is of essence. He/she is willing to compromise on rate if an NBFC can reach his premises and provide loans swiftly, so that he/she can capitalize on new orders received.

**How does your tie-up with SIDBI work? What subsidies are small entrepreneurs entitled to under MSME schemes?**

EFL established a unique association with SIDBI in 2006 to extend its reach in the SME segment. Through this association, entrepreneurs are entitled to 15% subsidy under the CLCS (credit-linked capital subsidy) scheme. We are proud to say that till date, more than 700 customers – with asset cost ranging from Rs.10 lakh to Rs.1 crore – have benefited under the scheme.





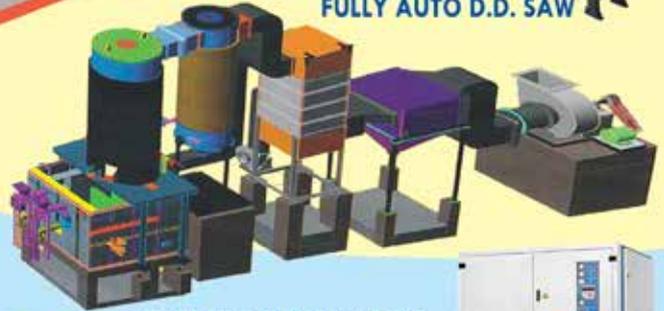
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**With 20 years of experience in financing firms in the SME sector, you decided to include woodworking machinery in your portfolio in 2012. What prompted this step?**

We are continuously looking to expand into markets that have similar characteristics to our existing verticals. On doing a detailed analysis of the woodworking industry, we realized that the machine sizes, customer profiles – even customer needs – were similar to the markets in which we were already present.

Further, in terms of the market size, the furniture industry had already crossed Rs. 5,000 crore in sales and was growing at 10%-20% annually. Also, expanding into woodworking presented an opportunity to diversify and de-risk our portfolio. Therefore, we decided to include it in our portfolio in 2012.

**What is the profile of a customer from the woodworking industry? What, typically, are his/her inherent strengths and drawbacks?**

The most important characteristic of woodworking customers, especially of the ones we cater to, are that they know their business inside out! They are quite clued in to technology, product, market, as well as competition.

However, the one thing that they lack is classifying, prioritizing and managing day-to-day activities, financing and accounting being prime

examples. Due to lack of time, he/she is not able to concentrate on financing, and in the end he/she loses an order due to unavailability of finance or inadequate paperwork to fund the machines.

**How well prepared are they with the correct documentation and business plan? Can you enumerate a checklist of 'dos' and 'don'ts' before an entrepreneur sets out to seek funds for business?**

While most entrepreneurs have a broad vision of where they want to be after 3 or 5 years, it has never been put on paper. In terms of documentation, our list (available on our website and at any branch) has been made, keeping in mind the constraints that an entrepreneur faces. Therefore, we generally do not face any hiccups as far as documentation is concerned. Further, we give more importance to the machine and the overall business potential, rather than the documents and financial strength.

**What determines the credit-worthiness of an applicant or enterprise? Typically, what is the procedure to seek a business (machinery) loan from EFL?**

For us, the biggest determinant of credit-worthiness – apart from the financial statements – is the repayment track record of any other loans that our prospective customer might have taken: home loans, auto loans, etc. This record sometimes

complements, and many times compensates for, less robust financial statements.

As far as the procedure to take a business loan is concerned, we have evolved an effective internal standard operating procedure at EFL that ensures the customer finds the experience seamless and quick. The lending process starts with an initial meeting between the entrepreneurs and EFL relationship manager. In the first discussion with the potential borrower, the manager tries to understand the importance of the machine in operations of the business.

Based on this, he suggests the general terms of lending and repayment: term of the loan, post-dated cheques, electronic clearing system, etc. which is verbally agreed upon between the borrower and our manager. The manager then gets the proposal approved from the head office in Pune. Upon the approval being granted, necessary set of documents are executed by the borrower and the loan amount released.

**Despite your higher interest rates (compared to bank lending), how do you win your customer's confidence?**

Apart from providing finance within 7 to 10 days, we provide our customers with customized repayment schemes, doorstep facility – and at the same time take only the machine as collateral. A bank would never be able to provide such benefits. Even within the NBFC space, our transparency in dealing and our market reputation have enabled us to stay a step ahead of our counterparts.

**What manner of incentives do you have for "good" customers?**

Most of our customers have been good, if you are talking about repayment track records. We not only reward them with prompt payment rebate at the end of their loan tenure, but we also come up with specialized schemes from time to time exclusively for our customers with excellent repayment track. These range from top-up loans without additional collateral to reduction/ exemption from processing fees. But these are

## Diverse Portfolio

- Cutting, drilling, boring, machining, grinding & welding machines & presses
- Plastic extrusion & injection molding machines
- Printing, cutting binding, laminating & engraving machines
- Generators & compressors

not generalist schemes; they differ from customer to customer based on their track record.

**What type of woodworking machinery – new or used, India-made or imported – does EFL help finance?**

Till now, we have financed panel and beam saws, lamination and processing machines, beam and CNC processing machines, CNC routers and edge banders. However, we do not restrict ourselves to these machines.

If there is a machine which fits our loan criteria (cost between Rs.3 lakh to Rs.1 crore), a good second-hand market and a revenue generating asset), then we will definitely be happy to fund it.

**You claim a remarkable turnaround time of 7 days, NPA (non-performing assets) level at a negligible 0.2%, and satisfied clients in the thousands. How do you achieve it?**

One would believe that the credit for low NPAs should completely go to the recovery team. In our case, it is different: we believe that good credit assessment at the time of disbursement is the first step towards low NPAs. When this is supplemented by a strong recovery team at the national and branch levels, the results are very low NPAs.

Additionally, we also pre-empt delays and defaults proactively. Thus, in spite of the economy experiencing a couple of recessions over the past 5 years, EFL has an enviable NPA level of close to 0.2% throughout. As stated earlier, our robust standard operating procedures help us disburse loans quickly, resulting in thousands of delighted customers.

**What is the significance of SMERA's rating to your firm, or to an MSME unit?**

SMERA has pioneered SME ratings

in the country and has till date completed more than 23,000 ratings across sectors and geographies on a pan-India basis. Also, SMERA has a good reputation of being comprehensive, transparent and reliable, thus providing comfort and confidence in decision making.

**What does EFL plan in the coming years, in terms of infrastructure expansion, portfolio diversification and tapping new markets?**

We expect to maintain our year-on-year growth rate of over 25% for the next 5 years and plan to expand our book size manifold. We also plan to expand into other verticals and open up additional branches. Moreover, business advisory, training and correspondent banking services are also something we are looking at, to complement our existing business. It's a long journey ahead.

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# Maintenance contract is a good investment

By Kishan Rao



*A preventive maintenance programme not only averts “down time” but also enhances safety of staff and operator re-training.*

The Indian woodworking machinery market has seen exponential growth in recent times, with industry estimates pegged at around US\$80 million, including imported and domestically manufactured products. Both Indian and foreign manufacturers are leaving no stone unturned in offering best-of-the-breed products to capture market share here.

However, periodic maintenance and services of machinery is possibly the most overlooked area of the business. The reason behind it is that the woodworking industry in India has been traditionally run as family concerns, which have had the habit of using hand tools that don't require maintenance and services of a scale required of highly sophisticated modern machinery.

Even today, woodworking professionals call a service provider only when there is a breakdown. They don't realize that repairing a faulty

machine is a costly affair. Every hour that their machinery is down impacts their productivity and costs – even relations with their customers – in a negative manner.

Woodworking machinery is in use very extensively; so much so that these machines are up and running 24x7. Timely maintenance and services, such as oiling, greasing, calibration, etc. takes a back seat.

Lately, a handful of high-end manufacturers have taken a serious note of this, but a lot of awareness is still required among all the stakeholders about the benefits of timely maintenance and services. In fact, preventive maintenance has become the key to many a manufacturers' success today.

## Anticipating Trouble

The onus of creating awareness and educating manufacturers on the need to install a preventive maintenance programmes rests mainly with service

providers. Preventive maintenance is usually a time-based service schedule, usually in a 3-month or 6-month cycle. It is more than greasing and oiling the machinery, though.

A good preventive maintenance programme anticipates breakdowns and takes action to ensure they never happen. This can involve several maintenance procedures.

The key maintenance practices that can increase your machines “up time” include cleaning, lubrication, inspection and adjustments. Sound preventive maintenance requires a commitment of time and finances. It is very much evident that such a programme reduces the overall cost of maintenance, because it ensures long life and minimal production interruptions.

Some of the benefits of a preventive maintenance programme include inspection of machines on a schedule that suits the manufacturer; enhancement of safety and comfort of staff; fewer equipment breakdowns; tighter budget controls; priority response if a problem should arise; and operator re-training. Such programmes are also able to identify faulty or ageing spare parts, so that these can be paid for and replaced without machinery “down time”.

India is a price-sensitive market and the lack of awareness is exemplified by the fact that while manufacturers invest lakhs of rupees in new equipment, they hesitate to spend a few thousand more on a preventive maintenance programme. A change in the mindset of machinery users is essential to visualize a return on investment in the periodic maintenance of machinery.

## Maintenance Contracts

If manufacturers are to reap the benefits of timely maintenance and services of their woodworking machinery, then they need to emphasize on signing annual maintenance contracts (AMCs) with

service providers. AMCs ensure the timely care of their machinery, which in turn, will increase its longevity and production output.

Usually an AMC would involve monthly inspection, oiling and greasing of the machinery to avert breakdowns and holding up the production processes. It is mandatory for service engineers to make 12 visits a year. Additionally, if there is a breakdown of machinery, then the company's engineers make a special visit to the customers' premises.

However, before signing an AMC, the manufacturers have to ensure that the service provider's engineers are not only equipped to handle any type of service requirements but are also the fastest in terms of turnaround time. By ensuring that its staff has the range of skills required to work on all aspects of the machinery, a good service provider can certainly scale up his business.

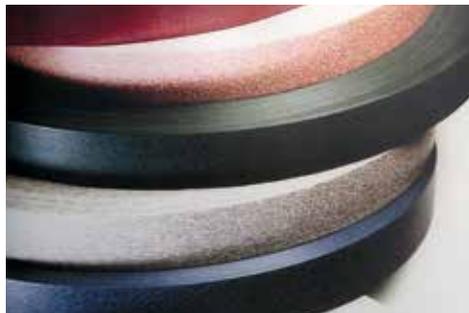
If a manufacturer is spending Rs.1 crore on buying machinery, then he should allocate at least 10% of that amount for annual maintenance contracts. Only then will it yield good results for the company

Though there are a few original equipment manufacturers and consultants in the country, they don't have either adequate number of engineers or lack the skill-sets to address all service requirements. The industry in India today needs service providers committed to superior after-care, employing a team of experienced technicians on hand to service or repair woodworking machinery.

The future of the woodworking industry is projected to be healthy, considering the long-term stability in the Indian market. This will not only open up a sure opportunity for the manufacturers to explore the market, but also for service providers who are ready to exploit the increasing need for AMCs for woodworking equipment.

– The writer is General Manager, Wood & Glass Division, Esskay Services.

[www.esskay.in](http://www.esskay.in)



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# Ideas, awards galore in 25th edition



Winners of the first edition of the Flame awards, presented to appreciate the creative efforts of the participants, at Index 2013.

With its guiding principle of being a focused business event endorsed by the crème of the Indian architect, designer and builder community, the 25th edition of Index Fairs was held from the 14-17 November last in Mumbai.

Spread over 30,000 square metres, the show encompassed more than 2,000 brands in furniture, furnishings, kitchens, kitchen appliances, office, contract, and architectural materials, intermediaries and hardware.

Index 2013 was officially inaugurated at the hands of architect Hafeez Contractor in the presence of Mr. Omar Mohd. Salleh, Vice-Consul (Trade) at the Malaysia External Trade Development Corporation; and Ms. Elena Febrel, Economic and Commercial Counsellor in the Economic & Commercial Office of Spain in Mumbai; among others.

According to Mr. Joji George, Managing Director of UBM India, and Mr. L.A.

Khan, Managing Director, UBM Index Tradefairs Pvt. Ltd., Index 2013 attracted participation from 250 companies, of which 62 companies came from 15 countries. The 25th edition of the trade fair clocked 23,983 visitors.

One of the striking features was the European Design Pavilion, an architect-designed space displaying exclusively European furniture, lighting, chairs and furnishings from the UK, the Netherlands, Italy and France. The representation also included participation of seven delegates from the reputed associations of wood and furniture industries.

Clubbed together were seven prominent Indian designers showcasing their own products; among them Miheer Fyzee, Aziz Kachwalla, Namrata Baruwa Shroff, Pooja Malhotra, Apeksha Samani and Natasha Bohra.

## Kudos & Ideation

The year 2013 witnessed a glimpse of the “shock and awe” initiative by the organizers in collaboration with eminent architects: a space where architects worked with materials and products, to create design spaces that pushed the limits of applicability and ideation. Among the architects who participated were Annkur Khosla, Jude D’Souza, Vibhor Sogani, Kanika Bawa and Vyom Mehta.

Appreciating some of the finest and most dynamic architects of the country, the second edition of Kudos honoured the inspirational work of six eminent architects in creating key green corridors. Among them were Abraham John Architects for the Bombay Greenway Project; Hafeez Contractor for the Mumbai Coastal Freeway; Karan Grover & Associates for Jadhavgadh Fort outside Pune; Prabhakar Bhagwat for the Green Rooms of Mumbai in Wadala; and Studio for Environment and Architecture for the Mumbai Greenlink Project.

Index 2013 also applauded and appreciated the creative efforts of the participants with the very first edition of the Index Flame Awards. Index Fairs launched two innovative interactions in the form of a debate – between architects, designers, specifiers and suppliers – with focus on two key industry segments: light and kitchen.

*The next (26th) edition of Index will be held in Mumbai from 9th to 12th October, 2014.*

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Mr. Khimji Patel and his son, Mr. Pankaj Patel, head up SMK, a third generation saw milling and timber wholesale enterprise trading out of Chennai.

Sri Murali Krishna & Co. (SMK), a veteran timber processor and merchant located on India's Bay of Bengal seaboard, commissioned a Wood-Mizer WM1000 saw mill at its Chennai-based Sri Krishna Sawmill to process high value, large diameter hardwood logs into sawn timber.

SMK has been an active and dynamic player in the saw milling and timber wholesale sector in Chennai for the past 53 years. A third generation family business that is now headed up by timber doyen and family patriarch, Mr. Khimji Patel, together with his son, Mr. Pankaj Patel, SMK can trace its origins to 1947, when the Patel clan first settled in Chennai.

Originally from farming stock, the family's decision to focus on saw milling saw their Sri Krishna Sawmill opening its doors to the public for the first time in 1956. Although the mill's output was originally only focused on hardwoods, it increasingly also had to make provision for the new products

# First WM1000 saw mill commissioned in India

By Etienne Nagel

that the market now demanded. Laminates and veneers for composite board surface upgrades proved to be especially popular. It not only provided for increasing windfalls but also motivated the formation of SMK & Co in 1979, to unite the diverse manufacturing and trading activities of the company under one banner.

A diversified product range that now also included a global hardwood procurement programme that tapped into markets in Africa, Asia, the Americas and Europe cemented SMK's growing success further. However, it also became apparent that SMK increasingly had to look at how it could advance its business by not only improving its products but by increasing production efficiencies.

The need to optimise available log volumes better, find an answer to skill shortages, prevent alternative materials from eroding timber's share of the market, drive down production costs and provide for competitive pricing formed part of this conversation.

At its Sri Krishna's Sawmill this search for improved performance initially resulted in SMK's decision in 2008 to not invest in further wide band saw mill capacity, but to opt for thin kerf narrow band saw capacity in the shape of Wood-Mizer's LT70 saw mill.

The LT70, which forms part of Wood-Mizer's Orange range, was identified by SMK as a key saw milling solution to process the large diameter timber that came through its gates. The LT70's <910-mm throat (1016 mm on wide head is optional) and its heavily engineered 6-metre log processing bed (13 m with extra bed extension) allows SMK to cut the 600 to 800 mm diameter logs that pass through the mill.

The log handling hydraulics on the LT70 makes it easy to load the large and heavy logs onto the saw and position it for cutting, which reduces manual inputs and improves productivity.

The thin kerf narrow band saw blades mounted on the LT70 cuts a narrower path through the timber, which means that less timber is wasted and more gets turned into marketable product. The LT70's computer controlled sizing unit also allows the operator to adjust the cut size on the fly. This increases sizing flexibility and productivity.

## WM1000 strength

SMK's continued growth and its focus on processing large diameter logs into high-value cut material prompted a further round of mill upgrades. The commissioning of the WM1000 saw mill in June 2013 allowed SMK



 *SMK's primary timber processing division commissioned the first WM1000 to be sold in India.*

to significantly strengthen its large log processing plant and overall competitiveness.

“The basis for the WM1000’s commissioning was the performance of the LT70,” Mr. Pankaj Patel says. “The LT70’s performance – which after the WM1000’s commissioning has been redrafted to process teak and semi-hardwood logs of up to 500 mm diameter – convinced us that the WM1000 can only improve our long-term competitiveness,” he said.

The WM1000 is the largest Wood-Mizer sawmill to date and is designed to saw large diameter (<1.7m or 67”) hard, soft and tropical species into high value products. It was specifically developed to provide Asian and African markets with an affordable solution for sawing large tropical hardwood logs.

It combines robust, durable construction with easy installation and simple operation. Despite its large size and 50-75mm wide band saw blades running on 1-m diameter wheels, the WM1000 retains Wood-Mizer’s world-leading thin kerf technology to reduce waste and maximise recovery of valuable wood. Hydraulic blade tensioning ensures

accurate, straight cutting with a good surface finish, whether the user is halving or quartering a log or producing slabs for further processing, or using the Setworks control to produce finished boards of consistent thickness.

The WM1000 is available in two versions. The head rig, which is a completely new twin rail design, can be purchased on its own for mounting on standard ‘I-beam’ tracks (which the customer can buy from Wood-Mizer or from local sources). The head has four driven wheels for travelling along the track, which can be as long as required.

A benefit of this option is that logs can be laid directly on the ground between the two beams, and the WM1000 can then cut logs with diameters of up to 1.7 metres, the maximum throat capacity of the head.

Alternatively, the head can be bought as a complete package together with a modular log bed, for cutting logs up to 1.5m diameter. The bed can be laid in sections to achieve the desired length, and is fitted with manually operated side supports and log clamp. Additional bed sections can be added at a later date if required.

The control panel is mounted on the head and the operator rides on a platform during cutting operations. This means the operator is able to closely observe the cutting process even when long lengths of bed or track have been laid – for example, to allow more than one log to be placed end-to-end and sawn in one pass.

### Setworks System

The WM1000 comes as standard with Wood-Mizer’s effective Setworks system. This improves productivity by allowing the operator to pre-set the required board thickness, after which the head is automatically moved to the correct position for each pass, ensuring precise and consistent control.

Variable forward and reverse speed allow the operator to adjust cutting speed to suit the size and species being cut – and to use ‘full speed’ for the return journey for maximum production efficiency.

As the only saw mill manufacturer that also makes its own blades, Wood-Mizer has invested heavily in research and development and also in blade production lines to expand its supply capacity. This has ensured that the company is able to support the launch of the WM1000 with optimum quality thin-kerf 50-75mm wide blades.

An additional feature of the head is that the hydraulic blade tensioning 



 *Logs from Asia, Africa, the Americas and Europe form the staple of SMK’s solid wood processing division.*

system allows the distance between the band wheels to be adjusted by approximately 200mm. In addition to ensuring that the blade is always tensioned correctly while in use for straight, accurate cutting, this amount of movement also means that the blade can continue to be used even if it is repaired by shortening and re-welding.

With the launch of the WM1000, Wood-Mizer has provided saw millers with the opportunity to acquire a high performance wide band saw at an affordable cost, with the added attractions of simple installation, ease of operation, minimal operator training, high productivity, and reliably accurate sawing with reduced waste and increased yield.

Although suitable for cutting all types of large diameter logs, Asia and Africa are likely to show most interest in the WM1000, whether for new ventures or for upgrading



Accurately slabbed material produced by the WM1000 from a large diameter, extremely heavy hardwood log.

or replacing older traditional mills. The ability to produce quality boards will allow customers to supply higher end markets with higher value products, with the confidence that they have top class support and back up services from a long-established manufacturer with worldwide offices and distributors.

The WM1000's commissioning

has allowed SMK to address the challenges that it faces head-on, Mr. Khimji Patel says. "We can continue to deliver into the market that we have built up over time, but do so in a more effective and cost-efficient manner. Our optimisation capacity gives us a leading edge while our reduced workforce can now be more productive," he said.

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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 PVC sheet to MDF. It is also used for manual edge banding of PVC strip to MDF, particleboard, ply, etc. without using any edge banding 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

# Canadian wood species are excellent material for Indian door industry

The insatiable demand for wood products in India has manufacturers of doors and furniture searching for alternatives to counter the dwindling supply and quality of traditionally used hardwoods such as Teak, Sal, Sheesham and Dark Red Meranti.

British Columbia (B.C.) in Canada is gaining attention from manufacturers as a trusted source of certified wood products from sustainably managed forests. As part of the 'Try Canadian Wood' initiative, a product trial was undertaken with D.S. Doors, one of India's largest door manufacturers.

The product trial served to demonstrate that wood species such as Douglas-fir and western hemlock are highly suited to door manufacturing for the Indian market. Forestry Innovation Consulting (FII) India supplied D.S. Doors with these two species to manufacture doors for their office in Mumbai.

They converted the raw lumber into edge laminated, solid wooden doors. Altogether the results of the trial produced full-size doors (12), miniature 3-foot doors (20) and 1-foot doors (120), which are used as samples for architects and builders. The doors were made in a variety of contemporary designs, each with different finishes to suit the local décor.

Mr. D.P. Singh, Plant Manager at D.S. Doors reported, "Compared to many hardwoods, the wood was easy to work and dry. It glued well and took coatings and polishing extremely well. The pre-cut sizes of lumber made it easier to achieve final dimensions, resulting in high quality

and standardised product, with little wastage. This improved efficiency, saved time and lowered costs. Wood from B.C. was found to be as suitable as teak for solid door manufacturing – and was far more economical. We are happy to incorporate these wood species into our product line and will definitely recommend the species from B.C. to our customers," Mr. Singh added.

These doors are on display at the FII India office in Mumbai and with D.S. Doors in Faridabad. Visit the Canada Pavilion at IndiaWood 2014 to learn more about the species and other end-user applications like furniture and interior décor.

*Forestry Innovation Consulting (FII) India is the government agency promoting softwoods from British Columbia, Canada. The India office commenced operations in July 2012 and has been working closely with several door and furniture manufacturers around the country to use Canadian softwood species for varied projects. For details, contact Mr. Brian Leslie, Technical Advisor, wood products: [info@bcfii.in](mailto:info@bcfii.in).*





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# AHEC sets the pace for wood certification

Each consignment to be tagged with environmental life cycle data

The American Hardwood Export Council (AHEC) has initiated a project with PE International to develop a system to allow US hardwood exporters to provide a comprehensive American Hardwood Environmental Profile (AHEP) with every individual consignment of export.

The project will ensure that credible environmental data specific to every individual consignment – adjusted to key parameters such as kilning efficiency and transport routes and modes – is delivered quickly and efficiently without significant cost.

Each AHEP will combine output from the AHEC/PE Life Cycle Assessment (LCA) project underway for the last three years, with information derived from other credible data sources to demonstrate the legality and sustainability of US hardwood lumber and veneer delivered into export markets.

These data sources include: the US Forest Service's Forest Inventory and Analysis programme and the Forest Stewardship Council (FSC) Risk Register, a free source of information on the risk of sourcing controversial timber throughout the world, covering more than 150 countries.

Each AHEP will provide access to information on the name of the US supplier, product description, quantity of wood, commercial and scientific species name, place of harvest and

documents demonstrating negligible risk of illegal harvest.

In addition, the AHEP will provide access to information on the sustainability of the US hardwood species contained in the consignment, together with quantitative data on the environmental impacts associated with delivering each specific consignment to an individual customer.

The data will cover all the environmental impact categories required by manufacturers to prepare formal Environmental Product Declarations (EPDs) in line with the EN 15804 standard for environmental assessment of construction materials in the EU.

An AHEP is divided into three pages. The first page will provide species – specific information required for the EU Timber Regulation and other data on sustainability. The second page will



The 'GaBi Envision' software tool, to be made accessible online or as a desktop version, will help US hardwood companies prepare profiles necessary to cover wood export consignments. The user has the option of adjusting various other key parameters such as lumber thickness, kiln efficiency, kiln energy mix, and transport distance and mode from the point of extraction through to final delivery in the export market.

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summarize in graphic form the LCA data required for formal EPDs, while the third page will contain notes.

#### Software Tool

The AHEP concept builds on PE's 'GaBi Envision' software tool developed to easily communicate environmental impacts and integrate LCA into the product design process. Individual US hardwood companies will be provided access to the software tool to allow preparation of the profiles necessary to cover wood export consignments.

The software may be made accessible online or as a desktop version. The user has the option of adjusting various other key parameters such as lumber thickness, kiln efficiency, kiln energy mix, and transport distance

and mode from the point of extraction through to final delivery in the export market.

This will allow environmental profiles to be generated, which accurately describe individual consignments. However, in order to ensure that preparation of profiles is not overly burdensome, users will also be given the option to select default values for key parameters.

These parameters will be averages calculated for the whole US hardwood industry and for typical supply routes into major export markets.

"Each environmental profile for US sawn hardwood will be specific to an individual species and users will be able to select from any one of

19 US hardwoods which together account for over 95 percent of all US hardwood production, and for which comprehensive LCA data has been compiled during the AHEC/PE project," according to Mr. Roderick Wiles, AHEC Director for Africa, West & South Asia and Oceania.

The development of EPDs is a response from the confusion that arises from the wide variety of environmental claims made by material suppliers, some genuine and some downright false. "It is time consumers and policy makers had the ability to truly compare the environmental footprint of the different products and materials they source," Mr. Wiles added.

# EUTR caught up in paper work

Chatham House, the London-based independent think tank, hosted a workshop on 'EUTR and the imported furniture sector' in October last, attended by representatives of the government authorities responsible for enforcing EUTR in the EU member states.

No more than 10% of the value of wooden furniture supplied to the EU derives from non-EU countries. Of that which is imported, 50% is sourced from China, with much of the rest sourced from Vietnam, Indonesia and Malaysia.

However, the EU imports wooden furniture with value of over € 1

million from each of over 60 countries worldwide. Of the € 5.3 billion of wooden furniture imported into the EU in 2012, nearly € 2 billion was seating, which is not regulated, and € 3.5 billion comprised regulated products.

The meeting highlighted that the main burden for implementing EUTR in the wooden furniture sector will lie with only three member states – the UK, Germany and France – which together take around 70% of wooden furniture imported into the EU.

In the case of exterior furniture, EU supply is heavily import-dependent on Vietnam, China, Thailand and



"Many overseas suppliers have not heard of EUTR, they do not understand it, and they do not want to comply"

Indonesia. This industry has traditionally strongly favoured natural forest teak from Myanmar. The EU market for interior furniture is much less dependent on imports.

The use of reconstituted panels with veneers and, more recently, a



broadening range of décor paper and other artificial surfaces have taken much share from solid wood in the interior furniture sector. Where solid wood is still used, oak is now strongly favoured, sourced variedly from the EU, US, Ukrainian and Russian sources.

Concern was expressed during the meeting that the vast majority of companies importing furniture into the EU lack the appropriate knowledge and expertise to undertake due diligence in accordance to EUTR. They do not have the skills to assess the validity of documents and claims

from their suppliers of legal sourcing. It was observed that “many overseas suppliers have not heard of EUTR, they do not understand it, and they do not want to comply”.

Even large retailers are struggling as they are being required to assess hundreds, even thousands, of small suppliers in a short period of time. They are finding it extremely difficult to check and validate the huge quantities of data and numbers of documents returned by their suppliers.

It was noted that the “majority of European furniture retailers have

upwards of 200 suppliers, each of which buys from a similar number of sub-suppliers, who may in turn buy from any number of agents, and that is before you get anywhere near the forest”.

Ensuring that each supplier in the chain is ‘chain of custody’ certified is an enormous challenge and very rarely achieved in the wooden furniture importing sector. Even where it is achieved, the amount of certified wood available falls far short of what is required.

# 35

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*Simplicity balances a complex form at the reception desk.*

# Tulipwood brewing

A sculptural timber form is the most striking thing that you see when you enter the reception of a converted warehouse building in North Kensington, west London. Made from panels of stained tulipwood, this feature is not only decorative but also functional.

Architect Stiff & Trevillion designed it to disguise an ugly staircase, which the budget did not allow the designer

to replace. And, in a space dominated by hard surfaces, it also serves an important acoustic purpose. The structure also houses the offices' reception desk, providing the reception team with a presence that many would envy.

The architect was not responsible for turning the building into offices. That had already been done, and those offices housed the headquarters of

American wood is used to refurbish former Victorian warehouse, the Phoenix Brewery, to provide for light and a spacious new office

Chrysalis Records, which had been at the forefront of the 1980s New Romantics movement in the UK, publishing bands including Spandau Ballet and Ultravox. Since then it had changed hands several times.

The client wanted to make the most of the building. It decanted Chrysalis to the upper floors, and Stiff & Trevillion designed a new reception space by roofing over an existing courtyard.





complexity of the form, doing away with any extraneous elements.

The carcass is of softwood, with a painted wooden board attached, to which are fixed American tulipwood battens, each measuring 20cm by 30cm. The edges of the battens have been cut at angles with three or four variations, which give the lively, irregular almost rippling effect that is so attractive.

“At first we just specified that we wanted a hardwood,” Trevillion explained, but when he investigated further he found that tulipwood was ideal for his purposes. Although he was aware of the material, he had never used it before – but he would, he said, use it again!

This gave the building a more imposing entrance, and provided an area that could be used for informal meetings.

The architect went for a simple industrial aesthetic, with a glazed entrance. It has exposed the underside of the new metal deck roof, installing glazing around the perimeter at the junction with the existing buildings, to bring in light. The floor is of polished concrete.

This ‘industrial luxe’ feeling was, however, in danger of being compromised by the presence of what Andrew Trevillion, director at Stiff & Trevillion, described as a “clunky 1980s” staircase in the middle of the space. Since there was not enough money to replace it, the architect decided instead to disguise it – not in a way that tried to make it recede into the background, but by celebrating and transforming it.

The timber enclosure is so interesting precisely because it has a form that would never have been generated naturally, but instead accommodates the twists and turns of the stair. It is made up of four horizontal layers, each set at an angle to the one below with the horizontal surfaces generated between the layers used to accommodate up and down lighting.

The lowest layer is carved down to an appropriate height to accommodate the reception desk with, in this case, the horizontal element forming the surface of the desk. By making the ‘sculpture’ work so hard, there is an essential simplicity to balance the

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a very reverberant acoustic in the space. The way these are arranged is slightly reminiscent of the interior of some concert halls, but there is an important difference.

Acoustic design for performance spaces is a specialist subject, calling for the use of highly skilled consultants, since it is vital that, as near as possible, every member of the audience should hear the music in ideal conditions.

In a social space like the reception at the Phoenix Brewery, it is simply important that the sound experience is pleasant, and that people can talk with a degree of intimacy.

Trevillion did not know exactly the impact that the timber form would

have on the acoustic of the space, but he knew that it would improve it. And this proved the case, "If we had not done this, the space would have been impossible to sit in," Trevillion said.

Instead it is welcoming and attractive, with some carefully chosen furniture. It fulfils the role that the client was looking for thanks, in large part, to the tulipwood enclosure that the architect designed.

*Project: The Phoenix Brewery*

*Location: North Kensington, west London*

*Architects: Stiff & Trevillion*

*Timber: American Tulipwood*

*Photography: Stiff & Trevillion*

He liked the fact that it was light colored, with few markings and that it took a stain well. At the Phoenix Brewery it has been colored a rich mid-brown, with a finish that also gives it Class 0 fire rating.

And one of the over-riding factors, Trevillion said, was that "it takes a good edge. You can get a sharp arris on it." This was vital since those edges play such an important role in the success of the sculptural conceit.

With a restricted budget and a relatively large amount of timber, the other attraction of tulipwood was that it is one of the more affordable hardwood species, thanks to the abundance with which it grows sustainably in the United States.

Because the different elements had to be fixed (they were pinned) in a specified order, the contractor, said Trevillion, "thought it was rather complicated at first. But once we explained, they realized that the job was quite straightforward."

The angling of the battens provides a range of surfaces on which sounds can be absorbed or bounced, softening what would otherwise be





# Biofore concept car has 'new' wood



professionals and courage have made the concept car a fine manifestation of our Biofore thinking," says Elisa Nilsson, Vice-President (Brand and Communications) at UPM.

Through the renewing of the bio and forest industries, UPM is building a sustainable future across six business areas to manufacture products made of renewable and recyclable raw materials. The UPM Group employs around 22,000 people and recorded annual sales exceeding €10 billion.

The Biofore concept car, a joint production by UPM and Helsinki Metropolia University of Applied Sciences, is to premiere at the 84th Geneva International Motor Show from 6-16 March, 2014. The unique concept car is designed to be a futuristic, street-legal vehicle which demonstrates the use of renewable bio-materials in the automotive industry.

Various parts of the concept car will be made from Finland-based UPM's bio materials – the Formi bio-composite and Grada thermo-formable wood material. These materials will significantly improve the overall environmental performance of the car, without compromising quality or safety.

Grada technology revitalizes the forming of wood with heat and pressure and opens up new opportunities for designs not achievable with traditional methods. Its unique forming properties enable high quality and ecological designs which are also visually appealing.

The new wood material is a natural, renewable and sustainable material. It is FSC or PEFC certified and the glue line does not contain added formaldehyde or other harmful compounds.

In keeping with the principles of sustainability and recyclability, the concept car will have a fuel-efficient internal combustion diesel engine that will be driven by UPM's BioVerno, a novel wood-based renewable diesel made 100% outside the food chain.

Exhibiting at a world-class industry event will draw international attention to the concept car, the students and other partners involved in the building process. "Sustainable innovations, close cooperation with future

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**Product Range:**

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- Independent spindle boring heads
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- Multi-functional units.

**Features:**

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- Through coolant option
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**UCAM**  
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# Coming from Siempelkamp: Ecoresinator for particleboards

In 2011 Siempelkamp presented, for the first time, its innovative blending system for fibers, the Ecoresinator. Back then nobody could have anticipated the success of this system.

Eighteen plants sold to date prove that Siempelkamp has met the demands of the market and the requirements of the customers. Resin savings, improved surface quality and capacity increases are more important than ever for the production of high-quality MDF.

For Siempelkamp this success was reason enough to launch another cost-reducing blending system. In cooperation with its subsidiary, CMC Texpan, Siempelkamp recently presented an innovative blending system for particles, the Ecoresinator for particles.

The special nozzle technology, which is used for this process, allows for up to 10% resin savings for particleboard production. This means Siempelkamp now not only offers state-of-the-art blending technology for MDF production but has adapted the successful Ecoresinator technology for particleboard production.

The particles first have to go through a material flow divider. Afterwards the nozzles, which are arranged in a staggered pattern opposite one another, apply a fine mist of resin to the two particle flows. By applying the resin uniformly onto the particles with a multitude of nozzles, less energy is



needed for the subsequent blending process.

The blender runs slower. Therefore, the particle structure is maintained and the wear of the machine minimized. High resin savings and the gentle handling of particles promise a quick return on investment.

The Ecoresinator for particles is a profitable system which is suited for new plants, or can be added as a retrofit if certain space requirements are met. If everything is optimally prepared, the installation is handled in 48 hours with minimal downtime.

The Ecoresinator is either attached to the customer's existing blender or is supplied together with a new blending conveyor, which provides additional energy savings. The customer's glue

kitchens, including the dosing systems, remain unchanged.

A prototype system is currently undergoing testing under real manufacturing conditions at a customer's facility. The system will be introduced to the market in 2014.

The Siempelkamp Group is a technology supplier operating internationally. It consists of three business units: one for machinery and plants, a foundry and another for nuclear technology. It is a globally recognized systems supplier of press lines and complete plants for the wood-based products industry.

# Innovation from Cefla: Fusion Coating

The most outstanding innovation for the 2013 Edition of Cefla Live was the presentation, in partnership with Henkel, of the Fusion Coating System. It represents the fusion of two innovative technologies: UV hotmelt coating by Henkel and Inert Coating by Sorbini.

Fusion Coating ensures perfect adhesion and flatness of panels in colored melamine, with both matte and glossy finishes both on MDF and chipboard panels. Additionally, it allows to process both individual panels intended to cut as well as already cut-to-size and edge banded panels.

The UV hotmelt adhesive creates a flexible layer with a single application, thus decreasing the number of required layers of coat, compared to the conventional processes. This also reduces the chipping due to dimensional changes of the particle board and ensures an easy cutting of the panels at the end of the process.

Operator interface is more simplified and suction improved in the spraying zone, with a consequent reduction in maintenance times for less overspray. There is also reduced running costs and environmental impact, due to improvement in transfer efficiency reducing the paint waste by up to 50%.

The adhesive Technomelt CHS 370 UV curing does not contain volatile organic compounds (VOC) and is applied to roll directly on melamine panels, where it acts as a primer for the application of one or more layers of enamel. Thanks to its good adhesion on melamine, its flexibility and its immediate compatibility with



the enamels, this adhesive forms a flexible layer, which reduces the risk of cracks likely due to dimensional changes of the shredded material.

Furthermore, since the processing temperature is between 90°C and 100°C, the process is also efficient from the energy point of view. In fact, the costs are also reduced because the UV adhesive polymerizes immediately, so the treated panels can go directly to the next processing step. Thanks to all that the operating costs are reduced by over 50% with the advantages of a lower environmental impact and substantial attenuation of surface defects.

Cefla Finishing Group is a world leader in the coating, decoration, digital printing of wooden articles and its by-products. It designs and manufactures tailored and turnkey systems for the wood market and today is in the forefront also in the

field of glass, plastic, fibre cement, composite materials and metal.

Customers range from big names in the building and furniture sector to the aerospace and automotive industries. It has manufacturing sites in USA, Brazil and China.

The group consists of leading companies and brands – Cefla Finishing, Decodigit, Delle Vedove, Düspohl, Falcioni and Sorbini – which have made innovation their strong point.

Cefla Finishing Group operates in the utmost respect for the environment through the continuous development of coating processes with low environmental impact and production of equipment for the purification of gaseous emissions, and is in full compliance with current European regulations.

[www.ceflaindia.com](http://www.ceflaindia.com)



# Tiara kitchens combine aesthetics with functionality



 *Mirrored skirting gives a floating look to the kitchen.*

As the nucleus of our clients' homes, the kitchen is central to healthy bodies and happy hearts in the family. Tiara Kitchens, crafted immaculately with passion, are an ode to this philosophy.

By combining European aesthetics with classic functionality, Tiara can truly transform a kitchen into a pleasant space and all cooking tasks into an enjoyable experience.

The appeal of Tiara kitchens lies not just in their striking designs but also premium materials and exacting craftsmanship in a way that captures unparalleled comfort and functionality. Height-adjustable fittings, intelligent lighting, soft auto-closing system for drawers and shutters, and heavy weight-bearing channels provide unequalled functionality.

The sheer range of finishes, textures and colors of Tiara translates into personalized statements, which are in fact reached at by working closely with architects, interior designers and the buyers themselves.

It is not just in their striking designs, but also in the proprietary problem-solving routines and stringent internal processes that go into designing a Tiara product.

Tiara's goal is to have the very same quality standards as any imported European kitchen manufacturer, but with sturdiness that is India-proof. Tiara uses German hardware, fittings, veneers, coatings and panels.

Also at Tiara, advanced technology serves Indian challenges by striking a fine balance between engineering

and culture; innovation and tradition; between sense and sensibilities.

Materials, including glass, solid wood and mirrored skirting, give a floating look to the kitchen, adding to the feel of spaciousness.

Tiara specialises in glossy PU finish, veneer and Acrylux shutters. These have enjoyed widespread use and popularity across the country over the last 10 years.

Tiara will soon launch bedroom (beds, wardrobes, dressing units) and living room furniture (chairs, sofas, TV units, crockery units and dining tables), to be built from walnut, oak and beech, all imported from Germany.

[www.tiarafurniture.co.in](http://www.tiarafurniture.co.in)



# World's 'smallest' kitchen from Greco

Amol Houseware Pvt. Ltd. offers stylish, customized kitchens that let customers make the most of available space. It has 6,000-square-foot manufacturing units in Malad (Mumbai) and Vasai (Thane district), from where it manufactures the Greco Kitchens brand.

Its range of modular kitchens is created using Corian (synthetic material), which makes it 100% waterproof, fire retardant and termite- and borer-free.

Greco also builds nano-kitchens, where a burner hob, a sink, a 110-litre refrigerator, wood-free cabinet and dustbin stylishly fit into one compact unit. These convenient kitchens offer maximum space even in smaller areas like offices, villas, hotels or service apartments.

Greco offers these nano-kitchens in sizes of 3.3 feet, 4 feet and 5 feet.

Apart from making modular kitchens, Greco also retails chimneys, hobs,



cook-tops, built-in ovens and kitchen baskets. Its fittings come from Hettich,

Hafele and Kaff.  
-[www.grecokitchens.com](http://www.grecokitchens.com)

# Grass launches Vionaro designer drawer

Movement system specialist Grass has created a new design solution for all applications in the kitchen and living room environment. The slender 13-mm Vionaro drawer side in this complete system is based on the concealed drawer slide Dynapro, which won the Red Dot Award for visionary design in 2010.

The extreme lightness of being is all the rage. This trend extends to the world of work as well as to our living spaces. Light, sustainably produced

materials are conquering all areas of our lives. We are casting off the ballast and enjoying the luxury of being able to reduce to the essential.

"The new style is minimalism. A profound and fantastic development is taking place", says an inspired Harald Klüh, global brand manager at Grass. "We dispense with everything that is not absolutely necessary and concentrate on the simple but very elegant and efficient basics."

One of those basics is Vionaro, the

cubist drawer system. "Vionaro has everything that Dynapro has: perfect running characteristics thanks to synchronised movement for the first time, combined with the lowest opening pull forces and outstanding load capacity of up to 70 kg. In addition, there is the three-dimensional adjustment facility that has become inseparable from the name of Grass", explains Gunter Grabher, who is responsible for the development of movement systems. ▶



Vionaro features two drawer sides that are just 13 mm thick and have an immaculate, entirely uninterrupted surface. The drawer slides come in a choice of elegant aluminium or steel versions with a flush, uniform connection to the back panel, which can be supplied in either wood or steel.

Perfection in the design of the front connection ensures the utmost stability and completely homogeneous surfaces.

A globally successful group of companies, a fresh brand with tradition and an extraordinary



*With Vionaro, Grass has created a sensational design solution for all applications in the kitchen environment.*

diversity of perspectives: that is Grass in a nutshell. With sales revenues of Euro 299 million in fiscal 2012, Grass ranks among the world's leading specialists in movement systems.

As development partner and systems supplier to the furniture industry, Grass has been creating products and services which inspire its customers for more than 65 years. Its slide and drawer systems, hinge, flap and corner cabinet systems are products that move the furniture of prestigious brands. – [www.grass.eu](http://www.grass.eu)



## Breakthrough in particleboard: Associate's Super Exterior Grade

The particleboard market has always had a huge demand for a more durable variant. This Super Exterior Grade has great synergy between form and function. While this variant is available in a multitude of designs and textures, it brings along with it immense durability.

When compared to Indian standards of PPB Grade-I, this board will demonstrate:

- 25% more MOR value
- 2x internal bond strength
- Much higher surface soundness
- No thickness swelling of more than 4% even after 24 hours of exposure to water
- Cost efficiency at Rs. 75 per square foot.

This board passes the Australian HMR grade specifications, which are much more demanding and stringent than other international standards. The Super Exterior Grade range of



particleboards is ideal for use in humid conditions.

These high-strength boards are ideal for applications in areas such as kitchens, bathrooms and outdoor furniture. The Super Exterior Grade is truly 'more value for less money', and comes from the trusted Associate Décor.

Associate Laminates include over 450 premium varieties, spread across innovative European designs, textures, colors and finishes. These are available in 1mm, 0.8mm, 0.6mm thickness and post forming series. Fire-retardant and water-proof variants are also available especially for kitchens, hotels and cinema halls.



# Hanfas' 3D boring jig scores on versatility

Hanfas' latest innovation is a unique 3D adjusting 35-mm boring jig assembly that drills holes for auto-closing hinges by any hand-held drill machine. This tool has a robust construction, speed and accuracy. It is lightweight and easy to handle and its performance excels over a bench drill or expensive machinery in versatility. Some of the advantages of the new 3D Rapid Jig are:

- Intelligent design features eliminate set-up time
- Suitable up to 40-mm auto-closing hinges
- Easy to use for unskilled labourer as well
- Amazing speed and accuracy
- Savings on precious man hours.



The 3D Rapid Jig's scale calibration allows quick and accurate predetermined positioning, thus saving time. The novel design of reference arm at both ends eliminates set-up time. The cup-centre distance is adjustable from 20.5mm to 25.5mm, giving freedom of using any make and

model of auto-closing hinge.

It also has a separate jig provided for pre-drilling mounting plate holes, along with an 8-mm drill depth stopper. This intelligent new tool eliminates dependency on skilled labour, saving costs.

## Drawer slide jigs for any size

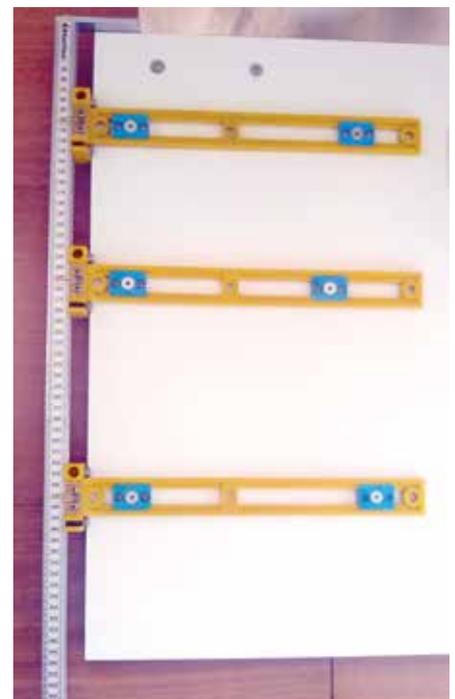
Hanfas also retails drawer slide jigs for any size. These are used for defining and pre-drilling of holes positions for carcass drawer slides. The slides have integrated calibration for easy and fast set-up, can be used with assembled or unassembled carcasses and are suitable for any make of drawer slides, telescopic and metabox.

The slides are error-free and assist in symmetrical fixing of drawer runners. The convenient sliders have precision scales and adjustable templates to enable accurate settings for quick and efficient drilling of holes. Individual adjustable template can be used for fixing handle uniformly.

The Hanfas drawer slide jig comprises of:

- One 700-mm-long calibrated heavy duty rail
- One top reference metal shop
- Three templates with magnified indicator for scale reading
- Six sliding spacers, two for each template, with hardened bushes for pre-determining of fixing holes
- One 8-mm drill depth stopper and
- 25 ribbed dowels as free samples.

[www.hanfas.com](http://www.hanfas.com)



# CARLTON SAW CHAINS

from Veeshan



Bar Nose



Guide Bar



Rim Sprocket



Carlton cutters are plated with hard industrial chrome, which gives them superior edge-holding qualities. All the chain saws are injected with a hypoid lubricant at the rivet bearings.

There are several styles of Carlton saw chains available to fit most budgets and operational needs. The company also supplies complete accessories, such as round files, guide bars, chain breakers, spinner assemblies, sprockets, starter ropes, plugs and bar noses.

Carlton products are now manufactured by Blount Inc, US, the market leader in manufacturing saw chains and guide bars. Blount sells its products in more than 115 countries around the world. Its research resulted in a patent for the development of a progressive stamping die and new process to form cutters that eliminated metal fatigue through a cold forging process and provided a finished product with the strongest top plate in the market.

Veeshan Enterprises also supplies TCT circular saw blade in its registered brand name, Kanvee, in three quality ranges: Premium, for maximum production at low cost; Professional, high quality for professional usage, fastest cutting, longest working life and greatest finish; and Industrial of superior high quality.

Kanvee electric chainsaws (2,000 Watts) come in bar lengths of 16" and 18". This state-of-the-art product requires no tool for fitting and chain tightening.

Veeshan Enterprises also imports GB-brand guide bars for one-man and two-man chainsaws. The double-ender bars are supplied in titanium/steel alloy for hardness, durability and overall life. They are available in sizes of 84cm, 100cm, 122cm, 150cm, 175cm and 200cm.





All CARLTON drive links, tie straps and cutters are fabricated from special alloy steel. This specially engineered steel adds toughness, abradable resistance and ductility in all kinds of climates. Cutters are plated with hard industrial chrome, which yields superior edge-holding qualities. Cutter drive links and bumper links are shot peened for increased tensile strength. All saw chain is injected at the rivet bearings with a hypoid lubricant. Every CARLTON saw chain is sharpened after assembly to cut fast. All you need to do is open the box, change your loops and you are ready to go to work. While there are several styles of Carlton Saw Chain available to fit most chain saws, CARLTON recommends that you select the cutter style that is best suited for your cutting conditions.



**CARLTON ALSO SUPPLIES COMPLETE ACCESSORIES I.E CHAIN BREAKER, SPINNER ASSY, SPROCKETS, GUIDE BARS, FILES, ROPE, SPARKPLUG ETC.**

Guide Bar



Rim Sprocket



Starter Rope



Bar Nose



Chainsaw Round Files



Rivet Spinner Assy



Chain Breaker Assy



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For more details visit:  
[www.carltonproducts.com](http://www.carltonproducts.com)

# Schmalz introduces new VacuMaster

Schmalz has unveiled a new generation of the VacuMaster HHVM, the vacuum lifting device that is lighter and more economical than before. It increases efficiency when handling raw and coated wooden boards.

With the new vacuum lifting device, the slim form follows the function. Thanks to the lifting device's compact dimensions, the user can pick up wooden boards from narrow, upright storage containers, swivel them by 90 degree as needed, and load them into either a horizontal or a vertical panel dividing saw.

The compact design of the HHVM also offers ergonomic benefits and increases operating comfort. With an overall height of only 270mm in the swiveling position, the VacuMaster HHVM is no larger than a sheet of A4 paper and weighs a maximum of 60 kg.

All of the functional elements are placed lengthwise on a robust aluminum beam. This beam also serves as a vacuum reservoir, which increases operational reliability and shortens pick-up times. The ergonomic operator handle is located on the front side of the device. This handle allows the user to control the load and move it safely.

The easy-to-move pivot bearing sits in the middle. The user can unlock the pneumatic latch bolt with the press of a finger and can then easily swivel the lifting device along with the board being transported to the left or to the right. The flat basic module at the end of the device contains the powerful ejector for vacuum generation.

A pressure reduction valve continuously provides the correct input pressure. The user can get information about the system vacuum at any time from the gauge. In the case



HHVM- better ergonomics, increased efficiency.

of an impending drop in vacuum, an electronic warning device alerts the user early on.

The suction plates (four, six or eight suction plates, as needed) are arranged in an offset pattern and can be switched off individually or in pairs. This makes the device flexible enough to adjust to boards with various dimensions and cut pieces.

As compared to the previous model, Schmalz has reduced the HHVM's compressed air consumption by over 30 per cent. These savings are the result of the use of a more efficient ejector. The standard air-saving control, a kind of start-stop function for the vacuum generator, saves even more energy.

Once a safe vacuum level has been reached, the ejector automatically shuts off and only turns back on in the case of an impending drop in pressure.

The VacuMaster HHVM is now available in three load classes: for 100kg, 150kg and 200kg. The specified maximum load is achieved

with a system vacuum of just 200 mbar, allowing even porous particle boards and MDF sheets to be held securely.

For commissioning, the device only needs to be installed on the chain hoist and connected to an existing compressed air supply.

Schmalz India Pvt. Ltd. is the Pune-based 100% subsidiary of J. Schmalz GmbH, Germany, one of the leading suppliers of vacuum technology worldwide. Its portfolio includes high-quality products and services in the area of automation, handling and clamping technology.

Founded in 1910, the company offers innovative and efficient vacuum solutions to customers from many different industries. In 2008, the company employed 570 people at its headquarters in Glatten and in 16 overseas subsidiaries.

[www.schmalz.com](http://www.schmalz.com)

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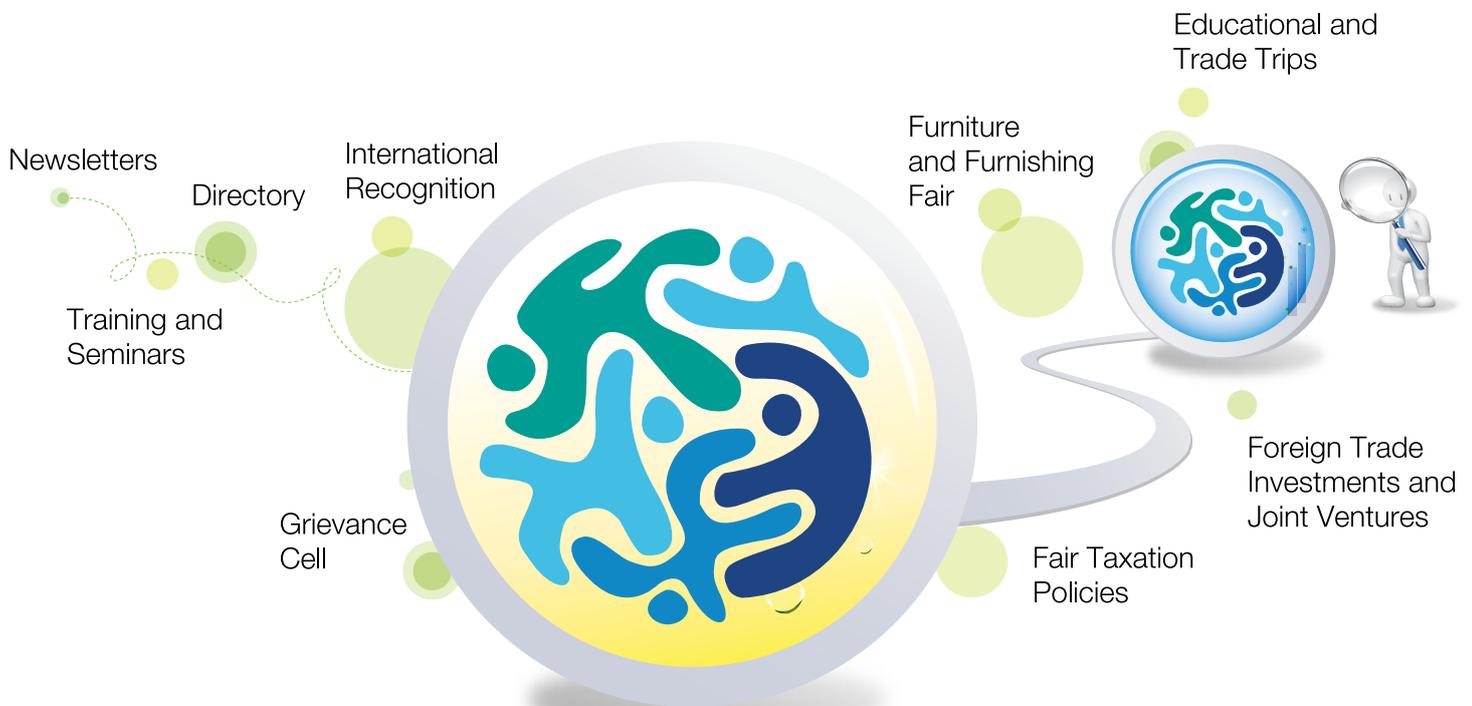


a . f . m . t

## 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**



# New Mika has designs on 'young' India

Raising the bar for decorative laminate designs 'New Mika' has launched its latest collection of laminates, inspired by the taste and preference of today's youth for abstract and flashy colors. The entire collection has 62 showstopper designs, ranging from classic wood patterns to the latest bright and vibrant abstract patterns and flashy metal laminates.

The collection also offers the latest in laminate digital and custom laminates. Buyers can choose their favorite texture, style or color of a laminate and add their choice of graphic arts, tailored interior design themes, corporate branding or logo to complement the entire decor.

Speaking on the launch, Mr. Alex Joseph, Vice-President (Marketing Communications) of Greenply Industries Ltd. said: "The 62 new showstopper designs by New Mika will focus on the required comfort which will connect to the target audience. We are focusing to spread the reach of the product to more than 10,000 retail outlets across India. With this our distribution footprint would be among the best in the industry and would further help in strengthening our leadership position in the decorative laminates business."

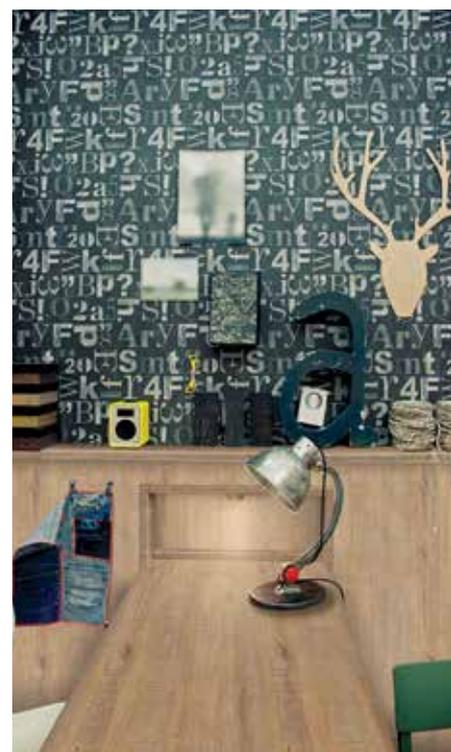
With the new offerings New Mika's range now goes up to 412 decors, suiting all kinds of interior design requirements, from home to office and projects to hospitality industries.



*Photographic reproduction of reclaimed wood casts an unusual spell.*



*Among the new laminates some have effect of engraved wood.*



*The New Mika range offers the Voodoo effect.*



# Wood remains wood with TRC Eco



(L-R) Owner Mr. Friedrich Fillafer, Mr. Erich Kampl (Mafi production manager) and Wintersteiger's Mr. Franz Vöcklinger.

Two machines from Wintersteiger's TRC (Timber Repair & Cosmetics) programme (equipment for automated wood surface optimization) went operational in early September last at wooden floor manufacturer Mafi's production plant in Austria.

The TRC-M Easy, the semi-automatic, entry-level model for filling smaller knots and cracks in the wood is used parallel to the fully-automated TRC Eco.

One of TRC Eco's greatest strengths is its flexibility: it can be adjusted for different wood dimensions in the shortest possible time, thus facilitating the work of the production team.

This product benefit was exactly what Mafi required as the wooden floor manufacturer offers 250 different products which can be supplied

within days.

Its owner, Mr. Friedrich Fillafer, said Mafi wooden floors are designed to last several decades. Mafi started manufacturing varnish-free wooden floors in 1992, triggering a trend that has since asserted itself worldwide: from wine cellars in South Africa to a cathedral in Mexico.

Another positive aspect is the enormous filler savings of some 30%, which matches Mafi's resource saving philosophy. The cooperation between Wintersteiger and Mafi went perfectly. Adherence to deadlines and reliability played an important role on both sides, and are the best basis for a successful partnership.

Mafi floors are manufactured with a symmetrical three-layer structure using the same wood for the top and bottom layer and offer more stability

and robustness. This robustness is crowned by the natural finish of the boards.

Wintersteiger, an Austrian firm, is known for advanced thin-cutting technology that is used worldwide in the production of lamellas. Thin kerf, high-accuracy and surface-to-glue processing of lamellas without additional steps are key benefits for its users.

The product line includes thin-cutting frame and band saws, including up and downstream processing, blade sharpening machines, carbide and Stellite saw blades, and technologies for gluing and pressing.

Among its customers are manufacturers of engineered flooring, doors and windows, multi-layer boards, pencils, musical instruments, etc.

# Perfect looking joints!



**Homag's Technology Product Manager, Mr. Markus Kostenbader.**



**The optical 'zero joint' is the new quality benchmark for edge banding in furniture.**

The established new quality benchmark for edge banding in the furniture and interior fittings sector is the so-called optical "zero joint". We interviewed Markus Kostenbader, throughfeed Technology Product Manager at Homag, about the benefits of laserTec and airTec.

**Q: What kind of technologies or processes do you offer customers to help them achieve today's optical quality expectations for a perfect edge finish?**

The Homag Group offers need-driven solutions to address every type of customer requirement when it comes to the manufacture of an optical zero joint. Homag took the lead in 2009 in the field of throughfeed technology with the diode laser.

Today, over 200 Homag laserTec units are in successful operation in the marketplace, now in three different performance categories with feed rates of up to 52 metres/minute. Several laserTec units are now also in operation on processing centers in different woodworking companies, ensuring optimum process reliability with zero joint edging on shaped components.

With the laserTec method, Homag

is providing the basis for all the qualities expected by today's buyers, particularly when it comes to office and living room furniture, fitted kitchens, as well as bathroom fittings: design, optical appeal, quality and also resistance to moisture.

Using the patented laserTec method, the edge and panel are joined by a directed laser beam which melts a wafer-thin function layer on the edge in an oscillating motion. This eliminates the need for hot-melt glue and the time required for heating. The system is immediately ready to start production.

This makes unproductive waiting times just as much a thing of the past as the need to swap the glue tank when changing colors. As no separate glue is now required, not only does this method use less material, it also eliminates all associated logistical operations.

Visitors to the Homag Treff in September last had the opportunity to witness an internally developed Homag airTec system, designed to afford entry into the world of zero joint technology for woodworking shops and medium-sized enterprises. The use of hot air allows the unit to

achieve a feed rate of up to 20 metres/minute.

The Brandt airTec unit, with a feed rate of 15 metres/minute has been available as a series model since Ligna 2013, and is already enjoying widespread and successful use.

**Q: What benefits do these methods offer?**

The greatest benefit of working with laserTec is the quality aspect. The fact that the function layer is the same color as the edging decor material guarantees a jointless transition from the edge to the panel. The result: edges in unprecedented quality – the zero joint.

Unlike conventional methods, the diode laser ensures a consistently high and homogenous standard of product quality. This, together with the extreme operating convenience, provides the assurance of absolute process reliability.

Process reliability is another crucial consideration here which is the key to the achievement of outstanding economy. For many customers, this is a decisive argument in favor of investment, as the challenges posed to operators by edge banding with hot-

melt glue never even arise when using the laserTec method.

For instance, when using suitable laser edges, temperatures can act on the joint which are on par with



The laserTec process gives Homag the "banding edge" over competitors.

the temperatures possible with PU – without damaging the joint function.

One of the surprising aspects of working with the new Homag airTec method is the minimal use of resources. Energy and air consumption are up to 40% lower per work piece than when using hot air systems available in marketplace to date.

Medium-sized enterprises benefit here from the availability of an ideal solution package, which allows them entry into the world of zero joint technology with a comparatively low investment compared to laserTec.

This unit can be used permanently without compromising the pull-off strength of edges or heating up the machine environment. In concrete terms, it eliminates the familiar drawbacks of hot air technology used to create an optical zero joint.



Homag's airTec process reduces energy and air consumption by 40%.

Users should bear in mind that the fund of experience gained with laserTec is now far greater than with existing hot air systems available in this performance category in the marketplace.



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# Jai machines bring excellence to woodworking

Jai Industries' woodworking machines are among the most popular ones in India. They are known for their versatility, sturdiness and efficiency, and are perceived to give the best return on investment. Jai Industries has a wide range of woodworking machines which are on par with the best machinery products of the world. The **J-4000.in** is an automatic value-for-money edge banding machine of European quality.

Some of its major highlights are:

- Automatic edge loading system for rolled edges with pneumatic shear for coil cut
- Powered and automatic edge feeding at work piece infeed
- Electric control panel positioned on the front side to facilitate use in any working condition
- Panel movement system by means of top powered feeder, reliable toothed belt
- Machine base made of steel: stable and rigid, keeping the adjustments



- Front telescopic support with roller conveyor for bigger work piece
- Glue temperature electronic control with digital read-out
- Friction-free work table with six rollers
- Easy adjustment of trimming and buffing units

## Technical Parameters:

Work piece thickness range	11-45 mm
Minimum work piece width	90 mm
Minimum work piece length	180 mm
Edge banding thickness: rolled edges	0.4-3 mm
Work piece feed	6 m/min
Trimming motor power	0.37 kW
Trimming cutter speed	11000 rpm
Buffing wheel speed	1400 rpm
Total power	2.75 kW

The **K-230** is another terrific machine from Jai Industries which guarantees the finest woodwork possible. Exquisite European quality is matched by India's best service and support.

This machine comes in three variants: K-230, K-230 with radius and K-230 T with radius.

All the three machines are loaded with features like buffing, edge scraping,

edge trimming, end cutting, edge cutting and gluing. K-230 T with radius can also do pre-milling work.



## Technical Parameters:

Machine Variants	K-230	K-230 with radius	K-230 T with Radius
Work piece thickness range	8-50 mm	8-50 mm	8-50 mm
Edge banding thickness for PVC/ABS	0.4-3 mm	0.4-3 mm	0.4-3 mm
Feed speed	9 m/min	9 m/min	9 m/min
Total power	3.76 kW	3.76 kW	7.36 kW

**Panel movement system in SCM**

**products:** The 'Megaline' feed belt (SCM patent), made of polyurethane with steel-cable internal structure, guarantees long-lasting sturdiness and stability. External high-adherence polyurethane layer allows for optimal panel holding, high traction, linear and vibration-free movement thanks to the synchronous teeth of belt and pinion. No maintenance is necessary.

**'K-2' end cutting unit:** cut and radius in a single operation: Two blades system allows for straight cutting of solid wood edges and chamfering of the thin edges. This automatic and error-free cutting is employed in many of the products from SCM, such as the K-400.

**'RT-E' infed panel edge trimming unit (pre-milling):** Carries out optimum panel edge trimming before gluing.

Use of the front copying devices allows constant material removal over the entire panel length, maintaining the work piece geometry.

The **Jai Turanlar T-SF 161-G** is a special machine designed for particular shapes having curved and grooved edges which need soft banding. Soft bands are applied on profile edges made by milling machines. The soft forming band must be pre-glued.

This is a functional machine equipped with automatic pulling and guillotine unit, hot air blower, triple profile cartridge, top-bottom trimming, top-bottom scraper, buffing and speed adjustment unit.

**Triple cartridge group:** Applies the band to the profiled edges by the use of rollers arranged in an appropriate way. Three profiles are already included in the machine. It is very simple to interchange between the profiles. These three profiles can be arranged at the factory on specification.



# Gluing goes 'greener' with Robatech

Robatech's market appearance has been characterized by a green logo for more than 39 years, and the Concept hotmelters of the latest Greenline generation are also 'green' because their working mode is particularly 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: We determined where the overall system emits the most heat, and then insulated these areas specifically. From the applicator head over the hose, right to the hotmelter, we

carefully investigated all appliance components for their energy consumption and heat losses.

The fully-insulated applicator head SX Diamond consumes 60% less energy than the preceding models. Within the framework of our Greenline concept we also exchanged the hoses. Energy can also be



saved by using a hose of 6 mm diameter, instead of the previous 8 mm.

The latest measures we implemented with a view to 'greener' and more ecological Robatech adhesive applicator systems are the special insulation with which we provide the melting tank of our well-proven Concept hotmelters and the cover over the adhesive distributor.

This puts us in the lead also when it comes to ecologically working hotmelt applicator systems. A further plus of the insulation of the applicator head and the insulated cover over the adhesive distributor is the improved protection of the operating personnel: the danger of personal injury (burns) during operation of the appliances is reduced to the minimum.

Robatech sets a clear example with its Greenline concept. At a later point in time the Concept hotmelters with bigger tank volumes will also become available with the special Greenline insulation, at no extra charge.

# Jai-Modula: J-1200.in Roller Press

Scheduled maintenance is of the utmost importance to obtain the best performance as well as a safe operation of the machine. A daily visual inspection is required of the general machine and electric panel. Use a vacuum cleaner to remove dust.

The load voltage and current of the motor must also be checked daily with the help of a meter. If not right, call a qualified electrician to rectify faults.

Daily visual inspection is also required for the pressure rubber rollers and the roller stand in the in-feed and out-feed sides. Clean any glue residues on a daily basis.

Visual check of oil level indicator for reduction gearbox must be done weekly. Refill oil whenever necessary.

The compressed air regulator filter and tank must also be checked each week. Drain any condensation present in the tank.

A bi-monthly visual inspection is a must for all wires and electrical connections, as well as for normal chain running. Tighten all wire connections where necessary.

## Lubrication

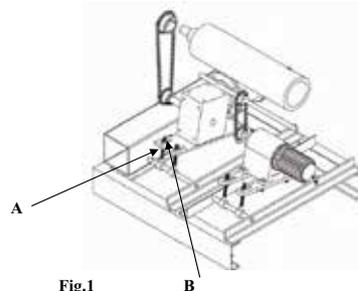
Accurate and timely lubrication ensures the long life as well as the best performance of the machine. While the gear box is filled up with grease in the factory, it needs to be refilled after a working period. The roller chain also needs to be greased.

The reduction gearbox is filled up with oil in the factory. Change new lubricant of gearbox after 400 hours of working for the first time. The normal cycle thereafter is 4,000 hours. Use Servo-320 oil or its equivalent.



## Chain Tightening:

You will need a tool kit, fixed spanners (12-13 and 16-17) and an Allen key set. After the first working period, or after many working hours, the chain gets slack. Follow the following procedure:



Stop the machine; turn the switch to OFF; open the rear cover. (See Fig. 1) Loosen the bottom nut from the plate (A) and tighten the top nut (B). Tighten the bottom nut again. This procedure should be applied for chain tightening of respective drive. Finally close the rear cover.

The chain tension may be said to be correct if, by applying a 3 kg force in

the middle of the chain, you get flexion of approximately 2mm.

## Trouble-shooting:

If indication of power is not seen on the control panel, check the power supply mains and all electrical connections;

If there is no display on the temperature control meter, check electrical connections and look out for drop in voltage;

If the temperature control meter indicates only room temperature and no heating, check if the heater switch is ON, check power supply and check the solid state relay;

If the red light is ON continuously, the solid state relay needs replacement;

If the temperature control meter reads 'Open', check the continuity of the thermocouple or replace it;

If the chain is making a noise, ensure proper alignment and tightness. Lubricate it with grease if dry.

*Courtesy: Jai Industries*

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# Acimall outlook better as 2013 ends




Mr. Lorenzo Primultini.

Third-quarter figures of the woodworking technology industry, processed by the studies office of Acimall, the Italian woodworking machinery and tools manufacturers' association, indicate that 2013 might close better than what was expected in the past few months.

The trend seems to be slightly more positive than the same period of 2012, with orders growing by 3 percent. This time, the strongest driver was the domestic (Italian) market, scoring a significant increase by 14.4 percent.

As to export, this quarter signaled substantial "stability", another positive

step towards the consolidation of Acimall's strong export propensity. According to the quality survey, 25% of respondents indicated a positive production trend, 50% stable and 25% shrinking production volumes.

Acimall also appointed its new board of directors during the extraordinary assembly held in November last year in Bologna.

It approved the nomination of Mr. Lorenzo Primultini (President of Primultini in Marano Vicentino, Vicenza) as President, and Mr. Stefano Dal Lago (Cms Industries in Zogno, Bergamo) and Mr. Franco Paviotti (Metal World in Pavia di Udine, Udine) as Vice-Presidents.

The assembly also elected Mr. Remo Costa, Ms. Marianna Daschini, Mr. Roberto de Joannon, Mr. Giampiero Mauri, Mr. Pierluigi Paoletti and Mr. Giovanni Sedino as members of the board.

# In India, MDF & WPC gain edge over plywood

The wood-based panel sector in India is still suffering from shortage of raw materials, which is pushing up prices for logs, chemicals and fuel. Labour shortages are now increasingly of concern.

To add to the woes of the plywood industry, re-constituted boards such as MDF, HDF, WPC (wood plastic composite) boards and particleboards are increasingly replacing plywood.

Rising costs and competition with substitutes are eating up profitability in the plywood sector. Competition in the wood-based panel sector is shifting in favour of the composite boards as prices are very competitive and the quality of the panels now available is so much better than in the past because of improved



The rupee exchange rate has been steady around Rs 63 to the US dollar. Exporters have benefited from the weaker rupee and export values have grown at the fastest pace for two years.

manufacturing technologies.

The reconstituted panel manufacturers have moved downstream and are now laminating panels within their own plants, thus cutting out intermediary

companies which previously handled the lamination. These boards from the panel mills now go directly to manufacturers of furniture, doors, etc. These changes are bringing very competitively priced products to the



consumer. Recently the Union Public Works Ministry and the Military Engineering Services have permitted the use of reconstituted boards in public sector works, thus reducing the share of plywood in this market segment too.

Laminated boards have also affected consumption of solid wood for doors. In India today flush doors are becoming more popular in up-market homes.

Currently there are around 85 plants producing veneered flush doors, laminated flush doors and moulded flush doors with PVC membranes. Because Indian carpenters find wages better in the Persian Gulf states,

Indian producers of solid doors are forced to increase wages to keep carpenters; but this means their products become more expensive and they find themselves priced out of the market.

India has introduced an employment scheme under which a worker when employed must be guaranteed at least 100 days employment. This has reduced labour mobility and caused a scarcity of workers. The scheme applies to unskilled and skilled workers.

This welfare measure introduced by the state is a problem for plywood mills which are more labour intensive than the sophisticated reconstituted

board factories. Because of labour shortages many plywood mills have had to limit production to one shift.

Timber markets have come back to life and stocks have started to move once more. Currently, demand is stronger in the smaller towns and mofussil areas rather than in the metropolitan areas.

Analysis of species imports shows that non-teak tropical hardwood imports continue to gain over teak and analysts point to several reasons for this. The first reason is that good quality plantation teak from Africa is getting scarcer; secondly, Myanmar teak is getting more and more expensive.

*Source: ITTO-MIS*

## ILMA meet on laminates in Jaipur

The 4th international technical conference on laminates, organized by the Indian Laminate Manufacturers' Association (ILMA) will be held from 18 to 19 February 2014 in Jaipur.

ILMA believes that the world is changing because of technology and it is time for the laminate industry to embrace the technological advancement in the industry and develop newer technologies itself.

ILMA's technical conference provides a unique opportunity to the domestic as well as worldwide decorative and laminates industries to understand

the process of making high quality, environment friendly and cost efficient laminate sheets.

ILMA is a pioneer in the concept of organizing such technical conference in the laminates industry.

### **The objectives of the Conference are:**

- To present and promote modern technologies, equipments, materials and modern tools for the development of laminates industry
- Reinforce direct global business contacts between international

and domestic stakeholders of laminate industry of the world.

- Create awareness towards the advance developments in the technology sector for bridging any gap with international players.

The previous editions of ILMA's annual international technical conference on laminates were held in Ahmedabad and Goa, with participation of more than 100 companies from Belgium, China, Finland, Germany, Indonesia, Italy, South Africa, Spain, Sweden, Switzerland, Taiwan, UK and USA.

## Biesse India sets a milestone

The 2,000th Blaze-120, a hydraulic hot press weighing nearly 6 tonnes and standing 8 feet tall, rolled out of Biesse's manufacturing facility in Bangalore on 19 December, 2013. This milestone is a vindication of the investor's confidence in Biesse's

ability to deliver results and their own commitment to continuously innovate and exceed customers' expectations.

Machines manufactured at the Bangalore facility are sold by Biesse in various parts of the globe through their subsidiaries and dealers

network. Global acceptance of products manufactured in Bangalore is a reflection of the high standards of product quality. Biesse India believes its growth and success has been built on the honesty, integrity and dedication of their exceptionally talented team.

# IMA & Schelling organize Tech Tour

IMA and Schelling successfully organized their annual Technology Tour in September-October 2013, where select customers from India, Australia and Japan were taken to different manufacturing units in Germany, Austria and Switzerland.

The purpose of the tour was to get familiarized with furniture components manufacturing processes, as well as to see how the manufacturing system works in Germany. The selected manufacturing units had very wide range of products mix as well as size of the factories varied from small and individual batches to large scale manufacturing units.



*The delegation of woodworking professionals from India, Australia and Japan at the Schelling factory in Austria.*

The segment included kitchen components, office furniture, storages display units, and counter tops manufacturing units. Some of the big brand names in the industry's factories were visited. The emphasis was on basic process like cutting, sizing, edge banding, drilling, routing, assembly, packing and all integrated

into combined processes to deliver the required quantity, variety and quality.

The delegation visited the manufacturing plant of IMA at Luebbeke, in Westfalia district of Germany, and the Schelling factory in Schwarzach, Austria. Westfalia district is called the cradle of the modern modular kitchen industry.

# MTC says in India 'logs are still king'

The Malaysian Timber Council's (MTC) international timber marketing conference in Kuala Lumpur in November last gave the audience a real insight from its overseas directors and representatives in Europe, West Asia, Russia, India, Australia and South Africa, as part of the biannual four-day Malaysia International Commodity Conference & Showcase (MICCOS) 2013.

The conference was headed by MTC Chairman, Mr. Aaron Ago Anak Dagang, who welcomed delegates from Malaysia's timber trading and manufacturing sectors. Newly appointed Minister of Plantation Industries, Mr. Amar Douglas

Uggah Embas, officially opened the proceedings by referring to the challenging global economic conditions within which Malaysia has to compete and which will continue to affect markets.

MTC London's Director, Ms. Sheam Satkuru-Granzella said: "Countries imposing import regulations will change existing trading patterns. These are forcing us to address them where we will lose market share if we do not. However, progress made by Malaysia in recent years in sustainable forest management is unsurpassed."

"India accounts for 17% of global population," said Mr. K Baskar, MTC's market correspondent for India. "But India is suffering from a severe shortage of wood, and although tariffs have dropped, logs are still

king," accounting for 62% of all wood imports.

There are 4,000 plywood mills in India. For lumber India generally wants heavy species and as Myanmar is expected to ban the export of logs, Indians are investing in mills there. So Malaysia needs to create awareness of new species for the Indian market, as right now the preferred Malaysian wood is Merbau, Mr. Baskar said.

The number two product import from Malaysia is particle board, and although India has about 40 particle board mills, imports remain important. Products from Malaysia have good potential, although China currently supplies 38% of India's imports as well as 50% of India's furniture imports.

But, Mr. Baskar noted, "IKEA intends to open 250 stores in the next 5 years with all products sourced in India... In India logs are still king."

## PEFC holds 18th assembly in Malaysia

The Malaysian timber industry is one of the major contributors of the country's export earnings, generating almost €4.6 billion in export earnings and contributing close to 2.9% of the country's total merchandise exports in 2012.

The Programme for the Endorsement of Forest Certification (PEFC) held its 18th general assembly and stakeholder dialogue for the first time in a tropical country, recognizing that Asia holds the key to unlocking the production and trade of sustainable forest products.

Malaysia became the first Asian nation to join the PEFC, and today one-third of its permanent reserved forests are certified as sustainably managed.

The general assembly was officially opened by the Malaysian Minister of Plantations and Commodities at a ceremony attended by PEFC members from 47 countries. The stakeholder dialogue offered a wide range of working sessions and side events attended by over 300 delegates from around the world.

It welcomed the European Timber Trade Federation (ETTF) and the International Council of Forest and Paper Associations (ICFPA) as PEFC

international stakeholder members. The Sustainable Forestry Initiative Inc. was recognized for its forest certification of the PEFC members. It represents 38 forest certification standards from around the globe. Award recipients for the greatest growth in PEFC 'chain of custody' were PEFC-France, MTCC-Malaysia and PEFC-Spain.

Presentations and expert panel discussions were held on such topics as sawn and plywood, panels and furniture, paper and board, and "mainstreaming" sustainability.

*For more information visit [www.pefc.org](http://www.pefc.org).*

## Bangalore event for XYZ Automation

XYZ Automation will hold an Open House at its Application Development Centre in Rukmini Plaza, 20th Main, 5th Block, Rajajinagar, Bangalore-10

on the 4th and 5th of February, 2014, from 10 am to 6 pm.

A raft of new developments that will be showcased include a high-

performance IP camera-based vision registration system; smart console hand-held machine interface packed with production enhancements; the latest helical rack-and-pinion drive system for optimum accuracy and repeatability; and a state-of-the-art new automatic tool changer system.

To view the product range, visit [www.xyz.in](http://www.xyz.in)

## IFT: New solutions to finishing technologies

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industry. IFT offers to provide solutions to the finishing industry by way of selection and supply of finishing equipment, training of

operators and finishing foremen, and project consultancy on finishing. IFT was born out of a need to address customers' needs in selection of finishing equipment and to reduce the cost of acquiring such equipment. Its skilled and experienced manpower also offers servicing of such machines and supply spares.  
[www.indianfinishingtech.com](http://www.indianfinishingtech.com).

# Jai Industries: milestone on the path of golden growth



In an age of frequent advances in industrial technology and fast-paced developments in a competitive economy, it is an achievement for a company to survive and grow manifold in each decade on the way to its Golden Jubilee. Jai Industries is completing 50 years, and those who have grown along with it, or have seen its growth, would vouch for its incredible story!

Established by the late Niranjan Shah in 1965, it catered to woodworking machine requirements of small workshops in and around Ahmedabad. Soon it expanded to cover the whole of Gujarat state. The Managing Directors, Mr. Nikhil and Mr. Nirav Shah, joined force and helped the company to grow rapidly through new-age manufacturing, managing and marketing vision and applications.

Jai became the first well-organized and professionally managed company in this field, and held on to its leadership position throughout the decades. The company's corporate vision has been to provide technologically best possible machines at best value, along with best after-sales services in the industry. This it has achieved through its four pillars of strength: the largest and best equipped manufacturing facilities; a nationwide network of more than 150 business associates; focus on customer service; and ethics

and honesty in all its deals.

With the advent and advancement of panel processing machinery in the woodworking industry, Jai also launched its 'Modula' brand which, over the last decade, reached the leadership position by the sheer number of machines it sold – more than any foreign brand – each year.

To satisfy the needs of high-end market segment in a globalized India, Jai entered in alliance with two European machine manufacturers. One is SCM Group of Italy and the other is Turanlar of Turkey. With these additions, Jai's basket of machines offering has been the largest in India. A customer that comes to Jai is bound to get a machine most suitable to his plans, projects and budgets.

IndiaWood 2014 would witness a further expansion of Jai's range, including WudPro, Modula, Pride of India, SCM and Turanlar. Many new machine launches will take place at IndiaWood (Bangalore, 21-25 February, 2014). The Jai enclave at the exhibition will be well appointed; displaying more than 85 machines over 800 square metres of exhibition space.

Besides practical demonstration of machines, several Jai managers, associates, experts and engineers will be in attendance. To mark its upcoming Golden Jubilee, Jai wishes to treat visitors to its IndiaWood stall with special attention – and special offers!



*The management, engineers, experts and staff at Jai Industries have participated in its growth.*

# EVENTS CALENDAR



February 21-25, 2014

8th International Trade Fair for Woodworking Machinery, Tools, Fittings, Accessories, Raw Materials & Products

## ACE Tech-Ahmedabad

January 10-12, 2014

Solely dedicated to the fast growing and the very popular construction industry. For details visit: [www.etacetech.com](http://www.etacetech.com).

## ACE Tech-Kolkata

February 7-9, 2014

Focus on the construction industry, among the fastest growing sectors in India. For details visit: [www.etacetech.com](http://www.etacetech.com).

## CIDE 2014

March 11-14, 2014

13th China international doors exhibition will be held at the Expo Center over 110,000 square metres of exhibition area and with more than 1,000 leading brands in aluminum, sliding, decorative, steel and fire security doors. For details visit: [www.door-expo.com](http://www.door-expo.com).

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**Venue:** Bangalore International Exhibition Center, Bangalore

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## DOMOTEX Asia

March 25-27, 2014

DOMOTEX asia/CHINAFLOOR is the largest international flooring trade exhibition in the whole Asia-Pacific region, and the second largest in the world. More than 1,120 exhibitors joined the show in 2013, filling the Shanghai New International Exhibition Centre for a total of 130,000 square metres of gross exhibit space. For details visit: [www.dacf.cn/en](http://www.dacf.cn/en).



## WHAT DO YOU THINK?

## WOODNEWS

George Fernandez, Director, Systems Engineering Consultants, Annanagar, Chennai (Tamil Nadu):

I totally agree with Ramu Sir (Focus, *WoodNews*, Nov-Dec 2013) that there is a desperate need to train all woodworking personnel in India. Precision and standardization must be enforced with architects and interior designers on a pan-India level, adhering to international standards. Detailed drawings must be prepared from site layout. This is not followed countrywide, resulting in inaccurate size, poor fitting and assembly. Lasers should be used for measurement, not tapes. Poor material and accessories should not be used to reduce cost. An international-level seminar or workshop to bring awareness about quality is a good idea.

G. Goutham Chand, Proprietor, G.S. Builders, Thambu Chetty, Chennai (Tamil Nadu):

Once I visited IndiaWood in Bangalore a few years back. I am going to visit it again in February 2014, to learn and be aware about new products and technologies.

Yogesh M. Patel, Partner, Patel & Company, Rambhau Bhole Marg, Mumbai (Maharashtra):

*WoodNews* makes me more informed about the woodworking world. Thanks for all the news in detail. If possible please include plywood industry news as well.

Bharat B. Pattani, Partner, Pattani Industrial Corporation, Fort, Mumbai (Maharashtra):

*WoodNews* has been featuring articles on all types of woodworking machines and tools. Why not an article on plantations timber, to replace the trees which are being cut? The efforts should be from government as well as private companies.

Dharmesh Shah, Proprietor, Concept Media & Marketing, Fulchhab Chowk, Rajkot (Gujarat):

*WoodNews* is very descriptive; it broadens the vision, especially of those who have an inclination for technological updation in wood craftsmanship.



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# WOODNEWS

## How will WOODNEWS be an influence?

### Circulated to Visitors

The REVIEW ISSUE, which will be circulated immediately after INDIAWOOD 2014, will reach the desks of all Serious Buyers and decision-makers who attend the event. That makes this issue the best platform to showcase your products and services.

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# COMPANIES IN THIS ISSUE



Machines & Tools	Page No.	Page No.	
ACN Equipment		77	
Airzone	62	63	
Altendorf		29	
Andritz AG		7	
AXYZ	117		
BS Engineering		75	
Barberan		17	
Barton		8	
Biesse	66, 115	64, 65	
Burkle	36	37	
Caple		13	
Cefla	97		
Dieffenbacher		15	
Emmaus Mach		10	
Excellent		21	
Felder		23, 89	
Holytech		1	
Homag	108	73	
Homag Practive		12	
Hydro Mech		93	
IMA	116	69	
Indian Finishing Technologies	117		
Jai Industries	31, 110, 112, 118	27, 38, 39	
Kalyan Industries		56, 57	

Machines & Tools (Cont.)	Page No.	Page No.	
Prashant Bamboo		77	
Printo		53	
Rasa Engineering	54		
Robland	44	45	
Schelling	116	69	
Schmalz	104	60	
SCM	52		
Shreemiya	46	47	
Siempelkamp	96		
Spray Technics		6	
Srichakra	54	55	
Tai Chan		91	
Thermwood		57	
U Cam		95	
Veeshan Enterprises		102, 103	
Venjakob	42	43	
Vollmer		109	
Wemhoener	34	35	
Whitestar Engineering		67	
Wintersteiger	107		
Woodmaster		81	
Wood-Mizer	59, 82		
WoodTech	48	IBC	
Yow Cherng		21	

Materials & Products	Page No.	Page No.	
Aakriti Manufacturing		49	
Associate Décor	100	FCF	
B.A. Group	40	41	
Biofore	95		
Bluecoat	36	16	
ColourLam		75	
Decora Kitchens	60	61	
Ebco	58	3	
Exel Finishing		42	
Firmedge		79	
Fortuna Kitchen & Home Furniture		87	
Fritz Kohl	30		
Grass	99		
Greco Kitchens	99		
Greenply	106		
Hanfas	101		
Hettich	31	IFC	
Huntsman		124	
INOX		BC	
Jai Laxmi		84	
Kastamonu	50	5, 51	
Masonite		33	
Pidilite		4, 85	
Robatech	111		

Materials & Products (Cont.)	Page No.	Page No.	
Sauerland Spanplatten	31		
Schattdecor	62	9	
SESA		11	
Sleek Boards		70, 71	
Tiara Furniture System	98	14	

Industry Services	Page No.	Page No.	
ACIMALL	114		
AFMT		105	
AHEC	88, 92		
Bureau Veritas	30		
Delhiwood-2015		113	
Electronica Finance	72		
EPCH		19	
Esskay	78	25	
Forestry Innovation India	86	2	
ILMA	115		
Index	80		
IndiaWood 2014	24		
MTC	116		
PEFC	117		

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