

WOODNEWS

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Mahesh Shah
on marketing
modular kitchens

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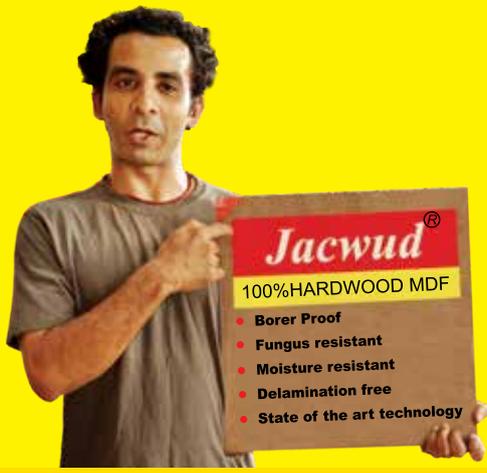
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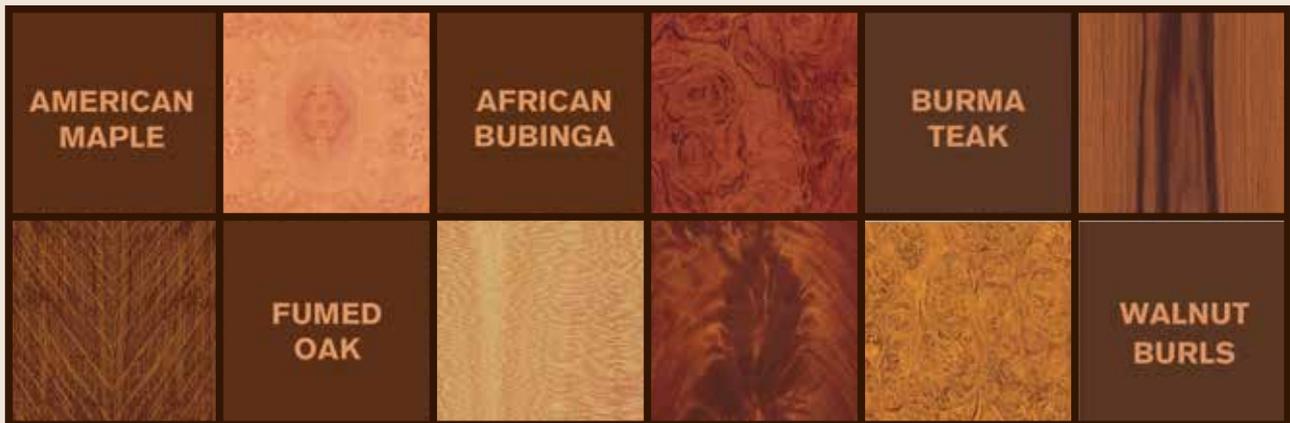
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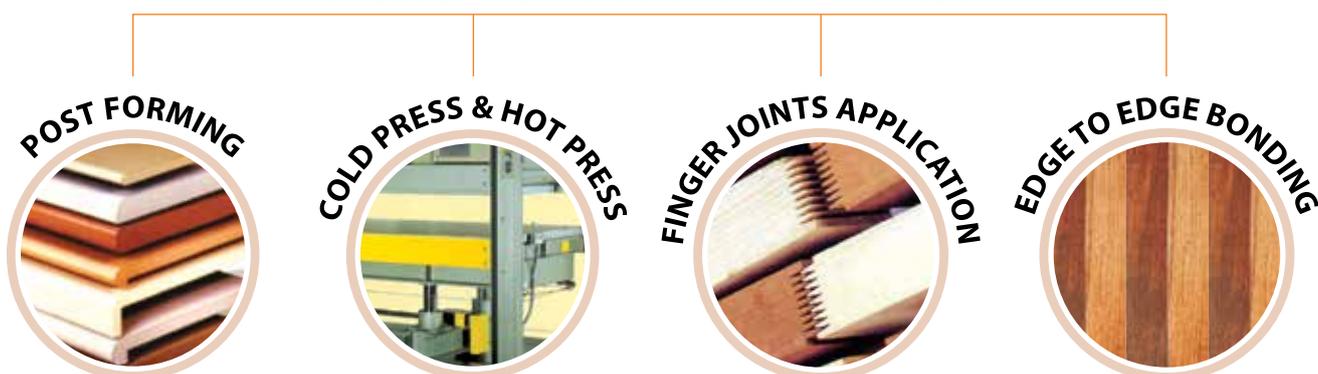
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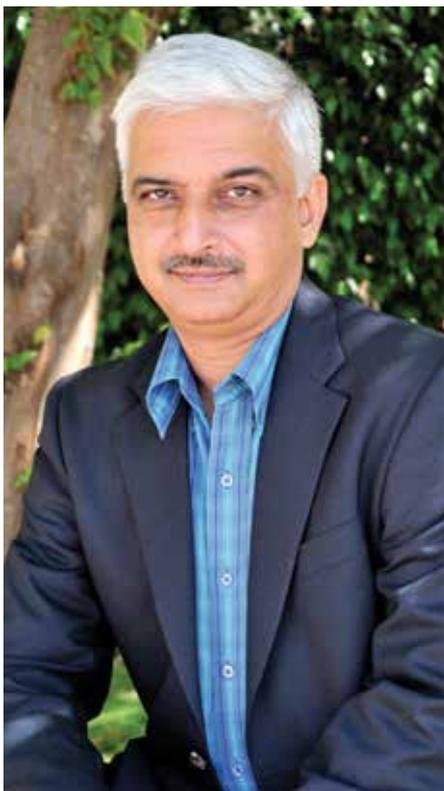
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EDITORIAL



Hello Readers!

Welcome to 2014's last issue of *WoodNews* – and to the excitement building around DelhiWood early next year! Apart from the nitty-gritty of the exhibition, I have tried to capture the mood of the industry as it looks forward to the fourth edition of North India's largest woodworking show in Greater Noida (4-7 February). Surely, there will be many product launches and surprises, and *WoodNews* will continue to keep you abreast of developments. For those interested, it would be preferable to register online (www.delhi-wood.com) to have your visitor badges delivered to your doorstep.

Our focus on modular kitchens this time has gone beyond the traditional Ms – material, machines and manufacturing – to take a glimpse at another important aspect: marketing! And what better case study than an established entrepreneur who has broken fresh ground in the complex product called a kitchen? With home spaces never sufficient for living, it wasn't long before someone implemented a workable idea of a 'wall kitchen' (also featured on subsequent pages): press a button and Lo! the kitchen emerges. It goes back just as silently after you're finished with cooking and cleaning.

In this issue, we also take a look at what is promising to be a revolution: 3D printing – from toys to jet engine prototypes, prosthetics to replacements of human organs... The list is endless. And, with the advent of "liquid wood", it won't be long before the additive technology finds god use to churn out products that were, until now, either not cost-effective, or "intelligent" or not imagined at all!

For those that can make it, the three-day international conference on 'Wood is Good: Current Trends and Future Prospects in Wood Utilization', starts in Bangalore on 21 November. As a part of its year-long platinum jubilee celebrations, the Institute of Wood Science and Technology (IWST) has roped in 150 delegates from different countries. Surely an opportunity not to be missed!

News from FMC China and Aseanwood Woodtech (Malaysia) point to the fact that despite the continuing economic downturn, business enthusiasm has not dipped, at least in Asia. The Wood Processing Machinery and Intermob fairs in Turkey also indicate visitor interest and consolidated them as important meeting platforms of the woodworking sector in Eurasia. As usual, design-led Index in Mumbai was a hit with its formula; it also underscored the potential for imported goods, even in the face of heavy customs tariffs.

With warm prayers for the Christmas season and best wishes for the new year, I leave you to the contents of this issue... Till we meet again!

Dhananjay Sardeshpande





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Power to the retailers



Mr. Mahesh Shah, Managing Partner, Krish Furniture Components, poses in front of a popular model of his newly-launched Elenza brand of modular kitchens.

It is the best of times for kitchen manufacturers in India, according to Managing Partner of Bangalore-based Krish Furniture Components, **Mr. Mahesh Shah**. The rash of manufacturers making hay in the burgeoning market will soon see consumers separating the boys from the men: quality-conscious professional manufacturers will stand out in the competition with fly-by-night operators and half-trained carpenters.

Krish has successfully supplied modular kitchens to renowned brands, and even exports them to West Asia, beginning with Muscat. A year after Mr. Shah formally launched the Elenza Novella range of top-line modular kitchens in the country, WoodNews spoke to him and his team about what goes to make it a success. It turns out that in-house marketing talent is always a winning card!

Krish Furniture Components, based on the outskirts of Bangalore, needs no introduction to the woodworking fraternity. Suffice it to say that, since its inception in 2004, the company has mainly supplied doors, cabinets and shutters to an endless list of satisfied builders and furniture manufacturers across India.

The entrepreneur duo of Mr. Mahesh Shah and Mr. Hiten Shah, its partners, spotted the advantages of modular furniture, especially in the kitchen space, as early as in 1999 and attempted retail under the brand name 'Ultimate Kitchens'. However, Mahesh felt, the market acceptability was not right then, mainly because awareness about modular design was inadequate. Fast forward to 2013, when the Elenza Novella brand was formally launched at the India Kitchen Congress in Bangalore. Why the foray into such complex products as kitchens? According to Mahesh, there was a widening gap between demand and supply for good modular kitchens, along with greater awareness of design and material, and the emergence of a quality-conscious clientele.

"We already had a reputation for quality design and production that we have earned from our innings with our other products. We had all plans and systems in place to launch ourselves in the kitchens space," Mahesh states. But what about the dime-a-dozen kitchen "manufacturers" that dot the scene across the country?

"Oh, we welcome competition of all sorts: the more the merrier!" retorts Mahesh. "Over time, the market will be able to separate the grain from the chaff. Only those that distinguish themselves as professional, efficient, quality-conscious and cost-effective manufacturers will survive on the

ground," he says confidently.

As proof of Elenza's standing, it must be said that Krish Furniture Components was (and in some cases, continues to be) a supplier of modular kitchens for the likes of Johnson, Evok, Home Town, Nesta and the erstwhile Reliance Elegant Kitchens. Right now Elenza branded kitchens sell more than 50 a month; but it is poised to scale up to 200 a month next year, after restructuring (now underway) of its Bangalore plant.



▶ Weeke's BHX055 Optimat: the smart allrounder for drilling, routing and grooving.

Krish Furniture Components has a modern 1,50,000-square-foot manufacturing facility for doors, cabinets and kitchens on the outskirts of Karnataka's capital. It is equipped with top-of-the-line beam saws, edge banders, membrane presses, drilling machines, CNC routers and paint booths of German and Italian make.

In the Beginning

Between the business partners; the company's Chief Operating Officer, Mr. Rahul Shah; and their Vice-President (Marketing & Sales), Mr. Nilay Karambelkar, the company has more than two decades' experience in the field and sold over 5,000 kitchens. Among others, they have rubbed shoulders with pioneers such as Mr. Snehal Vasani and Mr. Rajesh Ahuja.

What was the scenario when modern modular kitchens first made their way to Indian shores? Most kitchens were stone platforms with some support and open spaces for storage. When modular kitchens came, there were few suppliers, with the first mover gaining an advantage. Quite commonly, rejected or leftover cabinets served as display material for prospective clients – "never desirable!" admits Nilay.

And how did this awareness spread? According to Nilay, it began in pockets of affluence, in populations where people travelled the world, experienced the benefits of modular furniture, and came back to India demanding such kitchens in their homes, even if not the most costly or branded ones. Overall, South India is the most conscious market – "even ahead of the Mumbai-Pune belt" he vouches – with several builders incorporating good quality modular kitchens when selling apartments and villas.

What about material? This mainly depends on sourcing and availability, cost and market acceptance. In India, membrane-pressed PVC shutters remain a big draw, says Nilay, pointing to the order books of Krish Furniture Components. These are followed by MDF and plywood. "However, for our upmarket Elenza kitchens, there is a growing demand for solid wood shutters," he says.



 Holzma's HPP 250 horizontal beam saw.

What of the hardware and finish? For Elenza, the deciding factor is functionality and quality: hence fittings and accessories from Blum and Hettich are a natural choice. Since Indians are more flamboyant, the blacks and greys of Western aesthetics have been replaced with a range of colours and geometries. Nilay agrees that high-gloss finish is currently the rage. "However, it is cyclical. In a few years matt finish or wood grain will be back in fashion." The real differentiator, he insists, will be marketing.

Crux of the Matter

While the end-customer's awareness and the architect's advice are good indicators, what tops the list of influencers in branding and marketing modular kitchens are retailers and dealers, insists Mahesh.

They are the ones who not only sell the concept, but also help the manufacturer achieve greater production efficiency by convincing the customer about the importance

of modularity and standardisation. "Otherwise, the Indian kitchen industry is plagued by so much customisation that it can no longer be called modular," he observes.

Nilay notes that retailers and dealers are up against several odds: because they are not adequately educated and trained, they succumb to the whims and fancies of customers' demands. "When you visit a car showroom, does the manufacturer concede to your demands for customisation of the vehicle's wheels, lamps and engine?" he asks. Modular kitchen manufacturers most often offer a set of options: it is the retailer/dealer that must convince the client to choose one.

A less-than-perfect showroom is the first stumbling block. Since the kitchens in the showroom are on display they (showroom and display) need to be perfect, so that the retailer/dealer carries conviction in his sales pitch.

Retailers and dealers also need to

be equipped with good presentation software that can help the customer realise his/her kitchen in 3D, along with details of its functionality, modularity, colour scheme and finish. Many retailers are not equipped with adequate presentation skills, which need to be taught by the manufacturer's team of marketing professionals.

Nilay points to another classic example: the time taken by a retailer to generate a quotation for a prospective client averages 3 hours. S/he must not only be able to cut down on this time, but also perpetually keep the waiting client productively engaged.

The process of buying a kitchen goes somewhat like this:

- The client scouts around to satisfy his/her curiosity and identify a good and suitable kitchen: s/he is, however, not fully enlightened.
- Once past the showroom door, a prospective client can be held captive with the display and the retailer's knowledge of kitchens and presentation skills.
- The 3D visualisation software is a great boon to the retailer, helping him/her judge his prospective client's requirements, tastes and budget.
- Once the client's curiosity is adequately satisfied, the retailer focuses on the nitty-gritty: shape, size, colours & finish of the kitchen, as well as the functional hardware and decorative fittings.
- The client demands choice, and will continue to do so -- unless s/he is satisfied with the options presented by the retailer.
- Then comes the cost estimation: it is here that the retailer's training comes into full play, where s/he is able to book a site visit.
- It is essential that all measurements are accurate; all fixtures (lighting, cooking, appliances, exhaust, etc.)





are pre-determined; and functioning of the modular kitchen explained to the client's satisfaction.

- This is generally followed up with a firm quotation and booking of an order for the selected kitchen. Payment and delivery terms are clearly spelt out and agreed upon.
- The architectural (space) and design (kitchen) drawings are forwarded to the factory, where production drawings are generated. Thereafter, work begins on material, machines, fittings and finishes.
- When ready, the kitchen is transported and installed at the site. Follow-up is important, to attend to minor adjustments of cabinets and fittings for smooth operation of all parts of the kitchen.
- The retailer-manufacturer combine have to ensure regular and prompt servicing of all moving parts, and to attend to repairs, if any.

Help at Hand

According to Nilay, conversion of showroom visits to orders for kitchens depends on competition in the market, first-mover advantage and brand value. However, as a thumb rule, at least 30% of showroom visits should convert to site visits. Of the site visits, roughly half convert into orders for kitchens. "I say a site visit is the first product that a retailer sells. It should be paid for, to ensure that the prospective client is serious, and because it involves special skill sets and high accuracy," he adds.

Elenza already has 20 exclusive retailers and 200-odd dealers, mainly in Karnataka and Kerala, but also as far wide as Chennai and Jammu, Jaipur and Kolkata. In order to assist them, Elenza recently rolled an exhaustive programme of re-orientation and re-training, the aim being to achieve better production quality and efficiency, thereby increasing margins for the retailers and dealers themselves!

Retailers Challenges

- Understanding of modularity in design
- Perfect showrooms and product display
- Flexible, user-friendly design software
- Presentation skills for successful sales pitch
- Ability to quickly generate financial quotation
- Adequate & precise feedback to manufacturer

So what does a prospective retailer/ dealer look like in the eyes of Elenza? Mahesh stresses that mere investors in the business are not enough. "A retailer has to be hands-on in day-to-day marketing operations. Of course s/ he also needs to be technically aware. Of course, we train our retailers in the nitty-gritty," he adds.

With their vast cumulative experience, Mahesh, Rahul and Nilay took a year to develop an in-house, web-based platform that is able to configure endless libraries consisting of modules

and accessories of different sizes with pre-validated inter-relationships between skus

Incorporated into this software are inventories of raw material, architectural fittings and final finishes. This has cut down computing time (for estimates or orders booking) in the showroom from an average of 3 hours to a mere 20 minutes: now that's what we call fast!

So what has the kitchen industry in India not done right? Mahesh rues the lack of standardisation: in material, dimensions and accessories. He also feels educating customers about kitchens has lagged.

Nilay feels that (with exceptions) the industry has not paid heed to tackling the scarcity of trained manpower, especially in marketing. "We may not have failed," he says contemplatively, "It may be that we not have tried enough."

Both agree, whole-heartedly, that serious players in the industry have shown persistence in the face of operational adversity, market immaturity and diversity of views. That is what the industry needs, apart from some more market savvy.



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- Modular Kitchen

- Semi Modular Kitchen

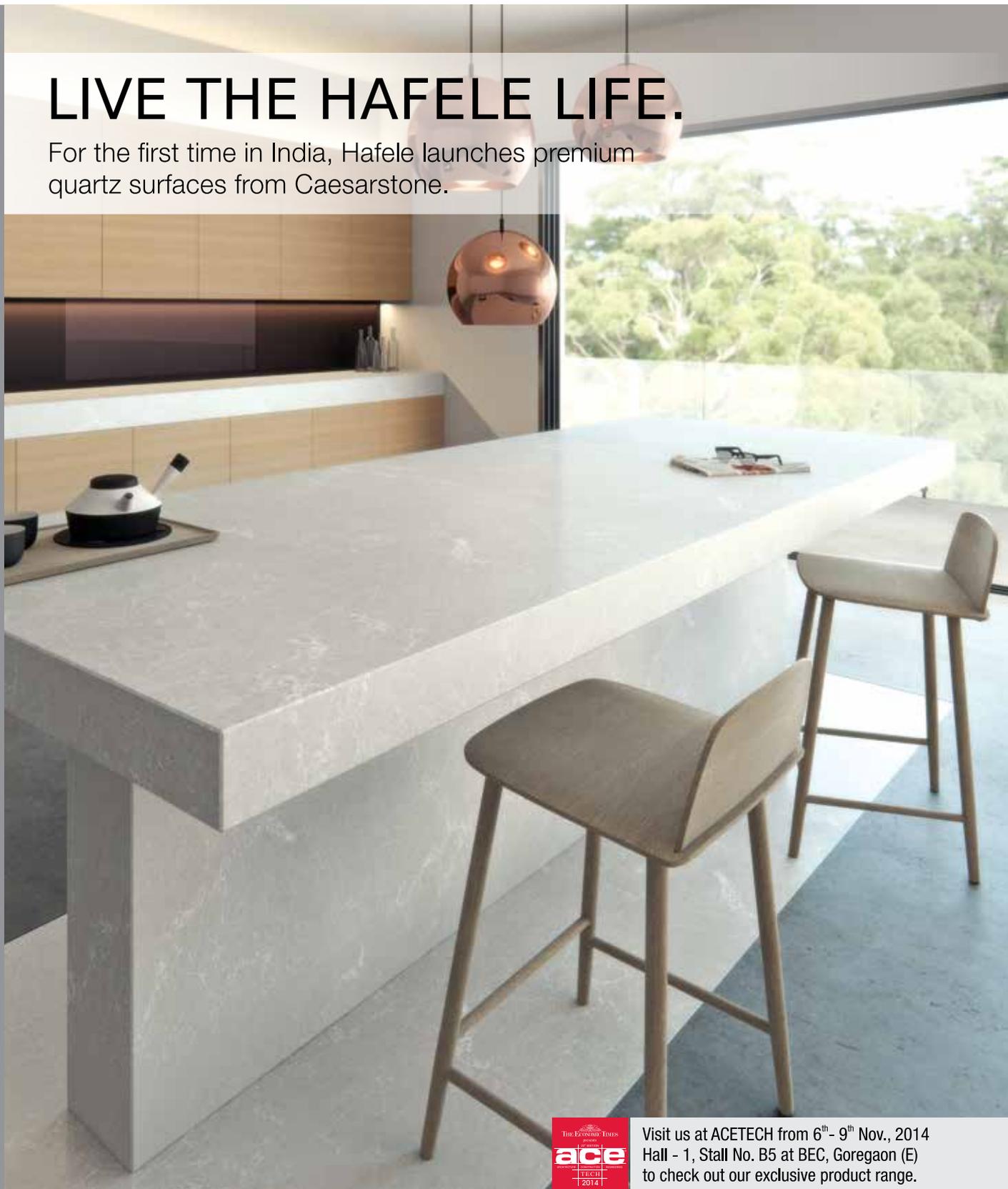
- Exiting Kitchen Platform
(Civil) Kitchen Trolley

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'Hidden' idea offers space saving



An innovative idea for a fully functional kitchen, including all necessary devices and storage spaces, comes from “out-of-the-wall” thinking, and literally so! See how...



When closed, the kitchen appears as a solid wall surface. With just a push of a switch a fully equipped kitchen comes sliding smoothly out of the wall. A Dutch manufacturer, Maciej Karpiak, introduced the initial design of the 'Wall Kitchen' in Amsterdam in 2010.

It has a work bench constructed of Corian, and includes a 4-metre induction plate.

The kitchen comes fully equipped with appliances and a sink. The total module length is a space saver's dream, with the Wall kitchen being

5620 mm, but only taking 421 square metres.

It can be finished in more than 100 types of veneer. And the continuous real wood patterns ensure that no two kitchens will be alike! The one featured on this page is completed in Indian apple tree veneer.

This installation from Miyo Studio in Noordwijk, the Netherlands, makes ample use of the space saving properties of the wall. One wall opens smoothly on a horizontal plane to reveal the functioning kitchen, while a storage and display section raises vertically from the centre of the table. The whole interior is finished in white satin varnish.

It is also child-friendly as it has child safety locks.

Miyo Studio provides high quality interior design and construction in the Benelux (Belgium, Netherlands & Luxembourg) region, embodying the slogan “anything is possible”. Not only does it provide standard packages

and an exclusive range of interior design brands, it also offers complete customization packages for any interior project.



The company handles complete renovation and design of project, through all phases: from concept design, 3D presentations, renovations, furniture and equipment installation to final servicing.

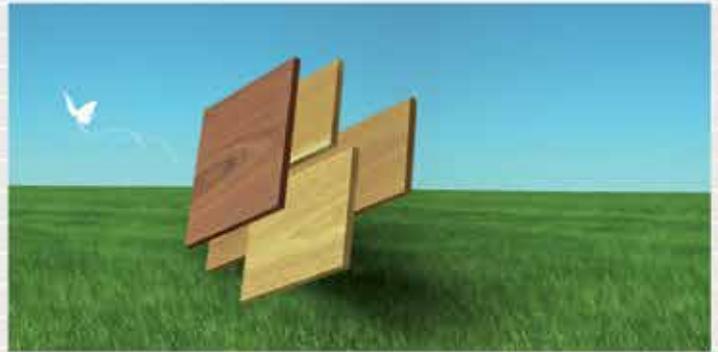
It also specialises in the production of hand-made exclusive furniture and interiors, and offers kitchens, stands, shelves, desks, tables, couches, counters, drawers, wardrobes, beds or bathrooms.



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BÜRKLE 
PROCESS TECHNOLOGIES

Innovative concepts from 'Blum'

Making modern design concepts come true

Modern furniture design today is determined, not least, by minimalist interior decoration. The aesthetics of simplicity and consistent design have put an end to overloaded rooms. Häfele's partner for kitchen fittings, Blum (from Austria), integrates the current trends in furniture design and provides customised solutions for customers.

New perspectives

Furniture should be pleasing and match your client's personal style. Many solutions and customer requirements are based on current design and furniture trends. Current trends and individual solutions can be implemented using Blum fittings systems, marketed and distributed by Häfele in India.

Sophisticated fittings systems support the ideas of architects and designers, such as large and gap-free fronts. Wide pull-outs and lift systems do not only look good, they also create valuable storage space.

While load-bearing limits previously stood in the way of extra-wide solutions, now innovative fittings systems enable completely new design options.

Handle-less cabinet fronts

Smooth fronts without handles are a typical feature of modern living environments. To guarantee the easy opening of such fronts, Blum not only offers its 'Servo-Drive' electric opening system, which provides ultimate comfort, but also a mechanical system called 'Tip-On'.

Furniture that opens smoothly and closes softly and effortlessly improves user experience significantly. 'Servo-Drive' is a fine example of



'Aventos' lift systems by Blum enable optimum access to the interior of wall cabinets. The picture shows a wide wall cabinet fitted with 'Aventos HF'.

how manufacturers can add user convenience to their furniture.

An electric opening support system makes it very easy to open and close heavily laden pull-outs (for example filled with heavy plates). One no longer needs to bend down.

A single touch of the hand or knee suffices, and the pull-out opens by itself. Closing is simple too. Thanks to soft-close 'Blumotion', pull-outs always close softly and effortlessly.

Lift systems for wall cabinets

The use of doors on wall cabinets is a passing trend. Instead one should always opt for lift systems. They move up and therefore out of the user's way, giving one greater freedom of movement. No more worries about banging one's head into wall cabinet doors left ajar.

Moreover, lift systems are ideal for large fronts. They are practical and

ergonomic – and extremely easy to operate with an electric motion support system.

Blum lift systems are an excellent choice for ergonomic and attractive solutions for wall-mounted cabinets in the kitchen or in other areas. The 'Aventos' lift system provides for various types of lifts that are easy to open and serves as a source of inspiration due to its sophisticated technology.

These lift systems come with a variable stop mechanism, which means that all Blum lift systems can be stopped in any desired position, stay there and hence are easy to reach again for closing. Silent and effortless closing is guaranteed by the integrated soft-close system 'Blumotion'.

Up to 1800mm wide fronts can be realised. This allows totally new design opportunities.

SPECIAL FOCUS MODULAR KITCHEN



Innovative corner solutions like the 'Space Corner' increase storage space and make kitchen work a new experience.

Space optimization

It is important to put the storage space available to optimal use. After all, one can never have too much of storage space. Well-thought-out cabinet solutions such as the 'Space Tower' (a new generation larder unit with pull-outs) make the most of the space available. Another good example is the 'Space Corner' cabinet which allows one to use every inch of space – even in corners.



'Tandembox antaro' stands for a clear-cut design – either with a rectangular gallery or as an enclosed drawer or pull-out with various design elements, for example, made of glass.

Efficient drawer systems

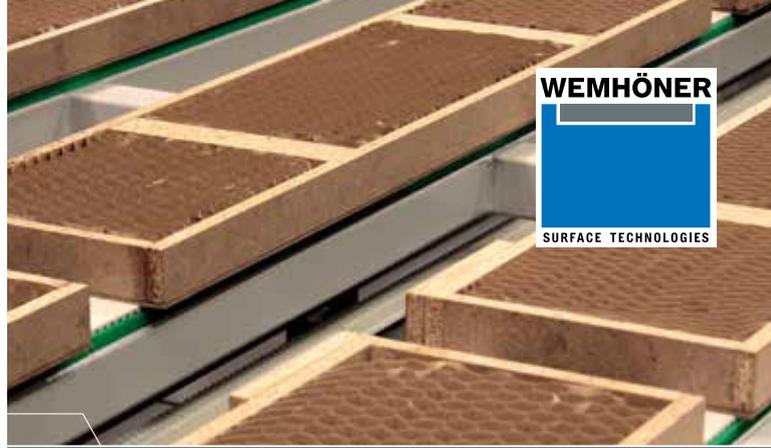
In an effort to meet the latest developments in kitchen design and to offer customers a diverse range of pull-outs, Blum has developed three different programme lines for its 'Tandembox' box system: 'Tandembox plus', 'Tandembox antaro' and 'Tandembox intivo'.

What's more, 'Tandembox antaro' can now also be combined with design elements made of glass or other materials to produce an enclosed drawer or pull-out.

This programme line is characterised by a rectangular gallery and colour-coordinated fittings components. 'Tandembox antaro' is based on Blum's tried and tested 'Tandembox' cabinet profile. All three lines share the same basic components, making assembly fast and efficient.

Unlimited possibilities

Blum hinge systems live up to the essential demands placed on modern furniture. Hinges made by Blum are available for various door sizes, thicknesses and materials and can also be used for glass and mirror doors.



LIGHTWEIGHT PANEL LINES

Wemhöner Lightweight Panel Lines optimise your production processes. Worldwide.

Design plays a decisive role in the furniture industry and interior constructions. In addition to a top-quality appearance other features such as efficiency, functionality and environmental aspects are relevant. The lightweight board is environmentally friendly due to the fact that natural resources are being used carefully for its production. While the physical and mechanical strength properties are similar to solid panels, however the weight of the board is considerably lower.

Wemhöner Surface Technologies processing lines offer state-of-the-art technology for the production of lightweight panels, both BOS, BOF and frameless type in throughfeed operation.

For the middle layer paper-based honeycomb, card-board-based honeycomb, low density board or foams are available. The skins (top/bottom surfaces) employed are either thin particleboard or MDF boards. The surface of the skins can be raw, laminated or lacquered.

Wemhöner provides ideal concepts for the production of lightweight panels and sets new standards.

Wemhöner Surface Technologies – we create your surface.



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 Innotech pantry unit

All Hettich hardware fitted with Silent System technology slow down in the last phase of closure and shut softly and silently. Loaded drawers, heavy doors and packed pantry units can all benefit from the Silent System technology. The system is clever and durable to slow every storage unit in the final closing millimetres and bring it to a smooth, soundless stop.



 Cosario instant storage bonus

This high quality, innovative damping model merges seamlessly with Hettich's overall expertise in furniture fittings. Hettich stands for efficient, ergonomic and organised solutions

for homes. Thanks to Silent System, practical storage now also comes with the welcome hush of luxury.

Efficiency is king when kitchen layout and storage are planned along functional lines. These are the five areas that matter – Food storage > Food preparation > Pots and pans > Cleaning agents and waste > Crockery and cutlery.

Our Intelligent Kitchens concept offers you ideas on kitchen layout and on choosing and optimising storage units



 OrgaTray 150 adjustable cutlery tray

Enjoy the luxury of silence

Hettich's Silent System damping devices close doors, drawers and pantries quietly under gentle control



 CargoMan smart corner solution

for the highest level of user comfort. Smooth workflows make kitchen work more enjoyable by minimizing time and effort.

Hettich was founded in Germany in 1888 and is one of the world's largest producers of fittings for the kitchen furniture industry, cabinet makers and the DIY sector. Hettich fittings are designed and manufactured to the highest standards and offer striking benefits to users.



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V 313 particle boards, the ideal choice for kitchens



Particle board technology is now highly advanced, paving way to eco friendly panels and an excellent alternative for plywood. However, Indians are still under deep obsession for using plywood not only in kitchens but also in other furniture fabrication.

With state-of-the-art production facilities and latest resin technology particle boards are now available with very low thickness swelling even after 24 hour testing. HeveaBoard have pioneered with in-house research and development efforts, a low formaldehyde emission particle board which meets the E1 as well as E0 emission levels as required by buyer without any compromise in the internal bond or bending strength.

In fact it is the most sought after particle board with an improved all round winning performance. It has become a market leader focusing on quality attributes tailored to provide an alternative to plywood.

India is still heavily dependent on plywood to the extent of almost 85% market share. This is mainly because of lack of knowledge on application-tailoring of panel product. Demanding buyers have forced the industry to compromise in the area of quality

which is unpardonable. With utterly poor performance of low cost particle board panels the user confidence is absent and the lean continues heavily towards use of plywood for making furniture in kitchens as well as other home items.

On the other hand in all developed countries and many developing countries the market share of plywood is mere 15% and reducing every year. Particle boards are used extensively because of the quality ensured long life of furniture.

A low formaldehyde emission board E1 norm which has an internal bond of $>0.60\text{N/mm}^2$ and bending strength of $>15\text{N/mm}^2$ is expected to give thickness swelling $<9\%$ even after 24 hour test. The price difference is so nominal that it is still cheaper than plywood. What the industry

needs is to promote value of long life, long performance and an affordable price for durable kitchen made from melamine faced V313 particle boards which are available in popular sizes, 2440mm x 1220mm and 2440mm x 1830mm, on order for projects as well as OEM.

HeveaBoard has several short cycle laminating partners to cater to pan India requirement for E1 and E0 low thickness swelling particle boards for fabrication of kitchen and other machine made furniture in many textures and designs. The melamine faced low swelling low emission particle boards still work out more than 50% economical than the plywood + laminate combination, with better finishing, speedy project execution and a higher eco friendly content.

Properties	min. reqd. as per EN	values observed
Internal bond N/mm^2	0.35 min (EN 312:2010)	0.60 min
Bending strength N/mm^2	14 min (EN 312:2010)	15 min
Thickness-swell at 24hrs immersion (%)	14 max (EN 317:1993)	<9





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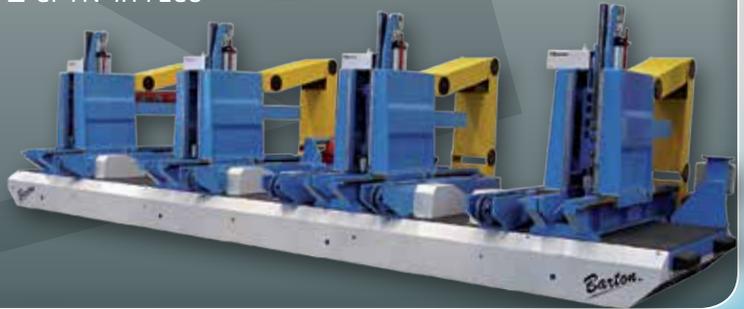
▽ *Band saws headrigs*

- SCB 1500



▽ *Log carriages with independent headblocks*

- CPTN 2A4 ECO
- CPTN 4A4 ECO



△ *Complete line based on log carriage and band saws headrigs*

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Häfele roller shutter



Doors are the most visible element of any storage cabinet. Hinged and sliding doors offer an elementary option of opening and locking cabinets; while roller shutter systems significantly expand your design possibilities. Roller shutters are highly efficient door systems which can be used in many applications both horizontally and vertically.

Häfele provides modern kitchen designing with its roller shutter system as an appropriate solution to store kitchen items. These roller shutters simply spell elegance, shout functionality and can easily become the focal point of any kitchen.

Häfele's range of roller shutter system leaves the kitchen transformed and rewards it with the luxury of space. It ensures easy workability, smooth motion and unhindered access to the storage items.

Häfele's range of roller shutters includes the following material options:

Aluminium roller shutters are available in two finishes i.e., brushed stainless steel finish and anodized finish. They are suitable for cabinets having a width of 450 mm, 600 mm, and 900 mm.

Acrylic roller shutters are available in high gloss finish and are suitable for cabinets having a width of 600 mm and 900 mm.

Glass roller shutters are made of tempered safety glass and are suitable for cabinets having a width of 600 mm and 900 mm.

Through this range of roller shutters, Häfele strives to offer the highest quality products, design and functionality to complement evolving trends and styles to ensure an outstanding interiors concept.

Ebco's new offerings are truly novel



Ebco has come up with some advanced solutions for modern kitchens. Its two new products, Pro-Motion and Convoy Lavido, are designed for style and efficiency.

The pro-motion drawer system, the 'N Series', has a sophisticated drawer

slide mechanism which is soft close with up to 50 kg capacity, and widths of up to 900 mm. It is available in heights of 80mm, 176mm and 185mm. Finishes to choose from are white, satin SS and silver grey.

It has a fascia panel system for internal

drawers, and sleek straight line design and is sturdy. Sizes available are 450mm, 500mm and 550mm. Options for glass and side panel in 500mm sizes with full kit.

The Convoy Lavido is a user-friendly solution for wide larger units offering optimum accessibility from three sides. The rounded shape of the elements ensures that every last inch of storage is put to good use.

The unobtrusive non-slip mat sticks to the shelf surface and can be removed for cleaning. Magnetic dividers and rails can be used as a simple flexible way of further organizing the storage spaces.

The shelves have infinite height adjustment, so one can easily adapt their height according to the items your clients want to store in them with a unique built-in soft-opening (Softstopp Pro), this is a first of its kind.



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HSA Rotary with PowerMove

Tall units, alternately known as 'Larder units', provide maximum storage for kitchen utilities like consumables, cooking utensils and crockery. They are specially designed to store bulk quantities of consumables and yet fit perfectly into kitchen interiors.

Häfele's range of tall units provides convenience, space efficiency and the competence for bulk storage. To extend these benefits, along with the additional advantage of easy ergonomics, Häfele now introduces its electric touch-opening mechanism for tall units.

PowerMove mechanism

The term 'comfort' has a new meaning within kitchens with the HSA rotary tall unit

- The HSA Rotary provides optimum functionality along with the elegance of international design and standards, and yet achieves optimal accessibility.
- HSA Rotary enables the user to swivel the entire unit to the right or to the left for optimal and better ergonomic access.
- HSA Rotary integrated with soft closing mechanism ensures gentle and silent closing.
- Installation is easy and effortless.
- Overall load capacity – 80kg for Classic and 120kg for Artline (per shelf)

The HSA Rotary unit with the integrated PowerMove mechanism provides an enhanced experience of easy opening and complete access.

- The PowerMove electric opening system allows you to open the tall cabinet front at the slightest push from the hand
- The cabinet front opens out towards you and you can swivel it to the right or left and gain maximum access to the contents of the tall cabinet.



 HSA tall unit Rotary.

Häfele works hard to better the standards of functionality for the end user – the objective is to provide them with utmost convenience and create an environment within the kitchen that demands the least of efforts.

Fevicol SWR family comes highly recommended

Modular kitchen designs are increasing in popularity because of their excellent utilization of space and the ease with which they can be assembled. Pidilite offers a complete range of adhesives to suit all modular kitchen furniture applications.

Our adhesive remains a favourite among manufacturers because of its quality and long-lasting durability for kitchen furniture.

For surface lamination using hot press, cold press or roller press applications, adhesives from the Fevicol SWR family are highly recommended. The range currently



comprises of four variants, all conforming to D3 grade.

One of the variants SWR EQ performs DIN EN 204 stress group D4 standard by addition of 5% SWR hardener. The Fevicol SWR range has been trusted and endorsed by many satisfied users.

In general laminated plywood, particle boards and MDF have a tendency to absorb moisture through the open edges. One method to seal the edges is by using a water resistant band or strip on the edge.

Commonly referred to as edge banding, it increases the life of the board and also enhances the aesthetics of modular furniture. Currently the company is offering a range of adhesives under the Fevicol Hotmelt brand name for both manual as well as automatic applications.

For vacuum membrane press, which is used to laminate MDF, particle board or a block board with a primer-coated, high-quality PVC foil under the application of heat and vacuum, Pidilite has developed Membrane Star 2K, a water-based adhesive which offers excellent heat and water resistance. It has a low activation temperature and high green tack.



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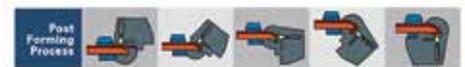


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Features

- Lifting and tilting of saw unit by hand wheels both on front side for more convenience
- Electronic digital readout of saw unit tilt
- Scoring pin with memory reference stop for rapid repositioning of the saw to a previous setting
- Extra second support for large sheet
- Rip fence with fine setting for precise positioning

Post Form (Auto) J-2400.in: This machine's purpose is to curve the laminate on the edges, with the profiles shape. Thanks to the special pneumatic gauge operated by 2 cylinders for repetitive jobs setting, it helps for best result. Other models are available as per the requirement of mass production. Automatic, speedier, easier yet excellent and error-free laminating of the profiled panels.



- 8 pneumatic cylinders to apply uniform pressure on work piece through forming rail for effective bonding of laminate.
- Ground and hard chrome plated heater bar for smooth operation and long life.
- Backstops facility provided to support long and odd shape jobs.
- Possibility to laminate more than one small board at a time.

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- Facilities for dry runs and manual runs provided for settings and trials.
- Automatic post-forming cycle with variable heating time, stop and go time and holding time, can be adjusted to profile.
- Driver motor with brakes is provided to avoid slippage of rotary motion of the heater frame.
- Mechanical drive control by limit switch.

Post Form TPF-190 and T-PF 280 (through feed auto): For post forming profiles on all kind of standard, good or bad quality panels with high productivity.

Operating units (T-PF 190)



Operating units (T-PF 280)



Features of T-PF 190

- This machine is built specially for safety and security standard.
- It applies pre-glued different color and specifications laminate to the work piece edge, can take piece with 70mm of max. profile height, and tackles all kind of laminates up to 1.00mm. Profile cartridges curve and apply laminate to the panel.
- Adjusting conveyor speed and temperature is necessary for best results and postforming the laminate without any burning and cracking.
- Lower trimming unit for 90° profile

to trim excesses from the bottom of the panel. Bottom trimming unit with one high frequency motor (11000 rpm) can easily clear the bottom excesses of half turn profiles.

- Top and bottom heating resists heat laminates and make it ready to be curved for being applied to panel easily.

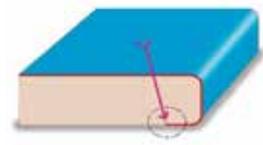


Profiles

Features of T-PF 280

- This machine is for covering different laminates to chipboard and MDF panels according to their profiled edges.
- The operation of the machine is very simple, temperature will stay same always but the speed must change according to the laminate color, quality, thickness, freshness etc...for the best application.
- In 180° postforming process, it has grooving saw for vertical or horizontal grooving.
- Infrared (medium wave) top and bottom heater units are 1750Watt each, gold bladed glass tubes, imported from Germany. The big advantage with these heaters is; the length of the panel does not matter at all, users can feed 4-5 meters table top and the temperature will remain same always as on the beginning.
- Trimming unit with high frequency Italian motor with 12000rpm (same like the edge banding trimming motors) placed on the bottom; in order to clean the amount in excess (overhangs) of the laminate.
- Grooving saw unit especially for the kitchen tops is a very necessary unit. As you know, with the help of grooving unit most of the users are filling these grooves with silicon,

hot-melt or something else against water drops. Placed on the bottom like trimming unit. Please see the picture below, pointed area with arrow



- Triple cartridge has the advantage for customer to keep three different profiles ready to run on the machine any time. For changing the profiles less than 3min. of time is enough, but of course cartridge must be set up before. All post forming profiles are possible with the machine; three of them are set in the factory for other profiles customers must do it by themselves. The triple cartridge is already set to these three profiles



Spindle Moulder T-FC 196 (through feed auto):

It allows you to mould edge profiles on the chip board or MDF board panel directly. The range has other higher capacity high-end feature models.



Profiles

Features

- Easy to feed the machine with conveyor system
- Safe operation inside the cabinet
- Due to conveyor system, you get



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very smooth surface for the soft forming and post forming

- The machine carries the design detail automatically with the pallet system
- Smooth surface can be obtained due to the speed regulating device

Roller Press J-1200.in (auto): It is used to cover laminates, papers, acrylics, veneers, pvc foil on the materials such as MDF, particle board/plywood.



Features

- Hard rubber rollers and four heater elements, that ensure perfect fix of laminates on board
- Easily accessible mobile control panel at machine in-feed provides convenient operation of the machine for controls and display
- Motorized up/down movement for thickness adjustment.
- Provision of hand wheel for manual setting of workpiece thickness
- No waiting period like other press, no limit to the work piece length, easy to use
- Consumes less energy as compared to other press
- Adjusting roller speed and temperature is necessary for best results
- With its in-feed and out-feed wide conveyors, it becomes a continuous production system suitable for mass production

CNC Router J-1325 (A): A higher quality CNC model that allows you greater workability with ergonomically designed control panel



Features

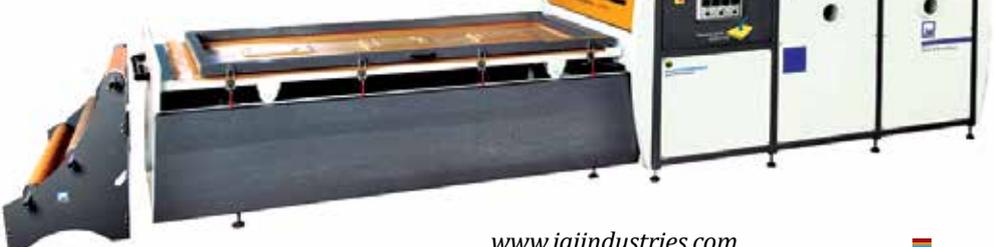
- Taiwan linear rail with high precision
- Heavy ball screw with high accuracy
- Cast steel structure makes our routers more stable
- Auto lubrication makes maintenance much easier

Control System: A convenient, separate control panel box which allows flexibility and efficiency in machine operating. Digital Signal Processing is applied here as the controlling system.

Tool Holding Guide System: A precision system to carry the CNC design commands. This Auto-Sliding guide system allows great design flexibility.

Precision Vacuum Table: (optional - ask for separate quote) for vacuumed fixing and sure clamping of the workpiece, to ensure steadiness during the entire routing operations

Vacuum Membrane Press J-1250.in (single door): Used for applying a uniform lamination of PVC, decorative papers and veneer till 0.4mm on



top surface and borders on flat and designed work piece having smooth shape. Vacuum-lamination with high quality heavy production.

Features

- Vacuum abnormality wrapping technology having single table
- Lamination of PVC foil on one side of MDF, particle board and solid wood
- Silicon membrane offered for veneer application
- Short pressing cycles
- Superior quality pump fitted in the machine for better performance
- Silicon membrane sheet is standard supply with the machine
- We provide one set of tray minimizer for optimum usage of work tray along with the machine
- Centralized control panel for controls and display with digital temperature controllers and adjustable timers for fully automatic cycle
- Manual feed of tray for loading. Special steel work table is proof against high temperature and corrosion. PVC foil roll holder with stand which can hold 3 different rolls at a time.
- Single sided frame clamps for quicker operation

*Additional 2nd trolley (optional) can be ordered any time separately. Standard features in models # J-1102.in and J-1252.in

Automatic machine "RAIN SPRAY" From IFT



Finishing Simplified

IFT's 'Rain spray' offers cost-effective painting solution

Indian Finishing Technology, a Bangalore-based manufacturer, completed a year in Indian market operations in September. In this short time it has come out with its own cost-effective models of paint mixing units, sanding stations and automatic door coating machines.

This machine has four circuits for different applications, reducing the consumption of solvent involved in the cleaning process. Each circuit is dedicated for top coat, sealer, pigmented and stains application.

The conveyor belt with holes comes with a vacuum-operated system which holds the paper in its position, preventing the paint from entering the panel below. The dirty paper is automatically rolled, protecting the belt from the paint. The system reduces the time spent on cleaning of the machine. To Know More Please visit our Demo Center at Bangalore Facility Where you can see the machine performance and the end results of the finish.

Contact Details: Indian Finishing Technologies Pvt.Ltd., 45/125, 1stFloor, Hanumanthanagar, Sriganthadakaval, Magadi Road, Sunkadakatte, Bangalore-560091, India.
Ph.No: +91 9945888300 / 8762710059, 080-23281917 E-mail:info@indianfinishingtech.com Website: www.indianfinishingtech.com

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3D Notion was the first art show in New York to focus solely on 3D printing. The 19 artists exhibited a wide range of works (top). Fashion icon Ditta von Teese (right) wears a dress made entirely from 3D printing. It was later hand-stitched with Swarovski crystals.



Revolution Round the Corner

Manufacturing through 3D printing is going to be a hugely disruptive technology. Design and fabrication will be simplified, material technology will see new inventions, production cycles will speed up, and products will flood the markets. The ownership of manufacturing can be taken up by the consumer him/herself. WoodNews put its ear to the ground to find out what else lies in store.

Every decade or two a new technology evolves with the potential to usher a new revolution and changes to our lives. The personal computer, cell phone, and the Internet revolutions in the last few decades have completely altered the way information is processed and exchanged and the way communication and business are conducted.

When we look back at the history of manufacturing since the invention of the steam engine and micro-motors, we don't see such revolutionary developments like those wrought by computers: they have had a massive impact not just on industries but also on the lives of people. Forging, molding and machining of materials are still in use for over hundreds of years. The advent of assembly lines and products designed to suit new needs resulted in the "second industrial revolution".

Computer-aided manufacturing and

design have been around for years, resulting in greater automation and accuracy, as well as the advent of robots in assembly lines. But what happens when end products are designed and produced physically, entirely by computer systems? Another big revolution awaits the manufacturing world, one that enables factories and designers to manufacture products, tools and prototypes, in any shape or complexity; but eliminating the need to forge, mold and join the pieces!

It would not be crazy to imagine that, in less than 10 years from now, 3D printers at home connected to PCs would make us goods and items of daily use, or replacement for damaged parts of appliances. People are already using 3D printers to make iphone cases, shower heads, coat hangers, fancy sippers and toys at home. All we need is to conceive a design, create



The idol in blue is a 3D-printed Padmasana Ganesha idol created by Bangalore-based Altem Technologies for public display in August-September 2014. The idol is printed in photo-polymer resin using Stratasys polyjet technology. On the right is the wooden idol that was used as a master and replicated. Stratasys holds over 550 patents, including the popular fused deposition modelling technology. Altem offers the technology to Indian customers.

3D PRINTING REVOLUTIONISING *the* CLASSROOM

Biology students can study cross-sections of hearts or other organs.



Design and Engineering students can make prototypes of their creations.



3D Printers have actually been around for about 25 years. Barriers like costs are breaking down, so they are now very affordable and easy to use. 3D Printing has caught the attention of educators who are looking into ways to incorporate it into the classroom.

Using 3D Printers in the classroom could mean:

Chemistry students can print out complex molecules to study.



Architectural students can print new or existing designs.



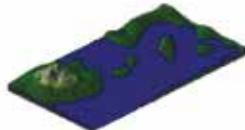
Engineering students can print modified car or robot parts.



History classes can print artifacts for closer examination



Geography students can print out topography, population or demographics of an area.



Graphic design students can create prototypes of product designs



Food Technology students can design molds and cookie cutter templates



If 3D printing can change the manner in which biology, chemistry, food technology, history, engineering and design are taught in a classroom, can woodworking be far behind?

a computer file in CAD, and feed the design to the printer, fill it up with raw material and wait.

Various Methods

There is already a strong undercurrent in the manufacturing sector about 3D printing, more technically known as "additive manufacturing". Big companies like General Electric, Lockheed Martin, Nike, NASA and some defence manufacturers are already using the technology to build parts of engines, turbines, prototypes for fighter engines and shoes, fashion items, and many more.

The cost and time of prototyping is drastically reduced, customization on design is only limited by the imagination. Billions of dollars are invested in R&D by many companies and governments for the improvement of this game-changing technology. In

a few decades organizations will have harnessed the maximum potential: 3D-printed auto parts, appliances, gadgets, satellite parts, and even human organs are certain possibilities.

The numerically controlled carving method that evolved during the first half of the 20th century laid the foundation for the idea for 3D printing. In subtractive manufacturing, tools cut away material from the starting block with precise coordinates of the shape in all three dimensions, fed by a computer file. Additive manufacturing does the opposite.

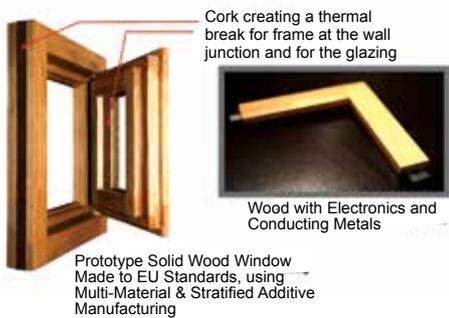
Fused deposition modeling (FDM) involves repeated squeezing of molten plastic on a work surface, which hardens immediately after the extrusion. The exact coordinates of injection in three dimensions are created in computer which feeds the

CAD file to the printer. Polymers such as acrylo nitrile butadiene styrene (ABS), polycarbonate (PC), polylactic acid (PLA), high density polyethylene (HDPE), PC/ABS, and poly-phenyl sulfone (PPSU) are the raw materials for FDM. FDM was patented in 1989.

In selective laser sintering (SLS) materials like plastic, ceramic, glass or metal in powder form are sintered layer-by-layer by a laser beam, pushing the solidified layer downward and adding another layer, until the entire piece is finished. The unfused powder acts as support to the developing model, eliminating the need for temporary support walls. This method was patented in the mid-1980s.

For fully dense materials with mechanical properties similar to traditionally manufactured products selective laser melting (SLM) is used.





Face of the future: Canadian manufacturer 4XYZ foresees the use of electronic chips, electrical conductors and other materials to make 'intelligent wood'.

In this method the powder is fully melt with a high frequency laser beam and bound together, in a process similar to SLS. Electron beam melting uses high energy beams of electrons in vacuum to completely melt metals and alloys to form the desired product out of the powder.

Rapid Prototyping

3D printing is a disruptive technology with the capacity to impact every industry it touches. Its impact could be as profound as the coming of the steam engine, the printing press or the invention of transistors. Economy of scale might get eliminated as single items of different shape and size would be as cheap as mass production of standard design.

One of the earliest uses of 3D printing technology was in rapid prototyping, used for design visualization and research. The reduced cost and time of prototyping was massive in industries

as varied as automobile, aviation, architecture, retail and entertainment. Freedom of design is the primary advantage in this process.

Functional prototypes are also built using durable material. Early prototyping helps in design verification and engineering evaluation, and for design presentation to investors.

Nike and Adidas have used 3D rapid prototyping to design shoes for enhanced performance which would not have been possible with conventional prototyping.

Customization of products has been there for some time. But the definition of product customization is changing with 3D printing and increasing variation in consumer choice. A 3D machine need not have a standard design input: for every unit manufactured the design could be any shape! Hence companies can offer increased customization, customers can have their product unique with their own design.

The days are close when we can have our own customized shoes, phones, water bottles, eye glasses, door knobs, shower heads, flower vases, drawers, toys, ice cream, cake, etc. An initiative from Bangalore-based Altem (www.printmycad.com) is to offer users free samples of 3D products. Users can upload their CAD files to the website and get the physical product delivered, free of cost. Altem represents Stratasys in India.

Mass production

The challenge for companies lies in creating value for the customer, to identify the opportunity for customization. And to find a manageable cost structure, no matter what the complexity level of the production is. Already prosthetics have been made in 3D printers that fit perfectly on a child's severed arm. It would be interesting to see what happens when mass customization starts taking place in biomedicine technology, something close to a

miracle!

At the current stage of development 3D printers are slow. Industrial printers with multiple extrusion heads can print with different materials and colours. The multiple heads speed up the printing process, sharing a single controller and producing identical units.

The revolution has not yet kicked off, but companies like General Electric are using 3D printing for manufacture of fuel nozzles for their new aircraft engines, reducing the weight of the engine part by 25%. Designers have started designing and creating shoes, dresses, necklaces, rings, bags, etc. Highly customized eyeglasses can be made now, and awesome birthday cakes and chocolates are on their way!

Industrial printers are expensive, which is one of the deterrents currently for average sized companies. Though after the expiration of most of the early patents prices are coming down, it is estimated that less than 1,00,000 units costing under \$1,00,000 will be shipped worldwide in 2014.

Consumer grade printers are getting cheaper and mostly driven by hobbyists and enthusiasts. RepRap is a long running project which aims at providing free open source hardware resulting in an ecosystem of related printers, making it the most common name on household projects. What is more, RepRap printers are able to replicate themselves by printing many of their parts by themselves!

The challenge right now is the cost of the hardware and its inability to mass produce, but in coming years the tide will turn. Extensive research is being done in tissue engineering, there is a possibility of organs and body parts being built with inkjet-like printers, layers of living cells are deposited onto a gel medium or sugar matrix and slowly built up to form three-dimensional structures, including vascular systems. Like we said before, the possibilities are limitless!

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What's in it for woodworking?

When we think of materials that can be used in 3D printers, we think of plastic, resin or metal. But now the 3D printing community is toying with wood, a more natural material with a unique aesthetic.

Voxeljet, a company that provides high-speed, large-format 3D printers, is currently developing new material sets, including additional sands, ceramics, cement and wood powder. Its printers use powder binding technology, which involves chemical binding agents used to bind together the material being printed.

But why are they developing wood powder materials? It certainly suggests a larger market for 3D printed wood products. In addition to its obvious application of creating natural looking objects, things made with the material reportedly won't warp, and can be painted, ground or cut – just like wood!

The development of wood material enables more applications in design and furniture industry and material developers see the opportunities. This year, a few start-ups have demonstrated their new wood-filament with different characteristics. ColorFabb's WoodFill, for example, is made from 20% recycle wood, combined with polymer binders.

Another wood-based material, the PopWood filament from Chinese manufacturer PopBit, is a new composite material made up of original poplar powder. The processing temperature of PopWood is 170-230 C. Similar to WoodFill, it can take on different shades of brown, depending on the temperature at which it is printed.

Tecnaro, a German firm, has developed a biodegradable thermo-plastic material called 'Arboform', made out of

renewable resources based on lignin, a natural polymer which is formed by photosynthesis and makes up about 30% of the substance of every tree and every wood plant (see page 58).

A start-up named 4AXYZ (four axes) in Canada has developed a unique technology wherein tiny pieces of wood are stratified using Kevlar or other reinforcers. Its product is not printed or sprayed in consecutive layers to solidify; instead formed layers of material are delivered and bonded to a precise location on the build by a computer-driven machine.

4AXYZ claims its wooden furniture is "stronger, cheaper and greener" than traditional woodworking methods – in addition to the fact that the pieces can be locally made.

A company called Drawn showed off its own 3D-printed chairs, and the printer responsible for it, at Maker Faire, in Paris, earlier this year. Its founders, Frenchmen Sylvain Charpiot and Samuel Javelle, aim to release their own product line of 3D-printed furniture, hold workshops to teach individuals how to design and print their own furniture, and allow artists and designers to use its services to print out furniture.

Voxeljet is eyeing the market for high-speed, large-format 3D printers for 'printed' furniture (top). 4AXYZ's chair (right) is formed of layers of wood-based material bonded precisely. French manufacturer Drawn showed off its own 3D-printed chairs (extreme right) in Paris earlier this year. Its founders aim to release their own product line of 3D-printed furniture.



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India's first bagasse-based particle board plant goes online



Mr. Sanjay Keer, President, Marketing & Sales, Krifor Industries

Krifor Industries Pvt. Ltd. recently commissioned a particle board plant near Surat (Gujarat) at a cost of Rs. 100 crore. The entire production line was installed by the legendary German specialist, Dieffenbacher. WoodNews corresponded with Mr. Sanjay Keer, Krifor's President for Marketing and Sales, to bring you more information.

Krifor is a new business entity in woodworking. Tell us something about it.

Krifor Industries Pvt. Ltd. has been floated by four entrepreneurs, three of who are already deep-rooted in the textiles business. Setting up the particle board plant is the brain child of Mr. Mandeep Bajaj, Director, who is an engineer by profession. The other three directors are Mr. Sanjiv Dalmia, Mr. Jugal Bothra and Mr. Chetan Das Khatri.

In a state where there are more than 10 similar plants, what is unique about your plant?

Commissioned in 2013, this is the first Dieffenbacher plant in India to produce particle board using bagasse as raw material. According to Dieffenbacher, the production line at Krifor will become the yardstick for other Indian manufacturers of bagasse-based manufacturers and set the standard for similar plants in the future.

When did production actually start?

Our mother board (plain particle board) production started at the end of April this year and the lamination process started by July. Currently we have achieved 80% of the production capacity. Around 55% of that is getting pre-laminated. This percentage will go up as the plant starts maturing.

What is the capacity of the plant? What components did Dieffenbacher supply?

The entire production line, with a capacity of 220 cubic metres per day, has been set up by Dieffenbacher.

The German manufacturer has supplied equipment from the start of manufacturing to the end: from bale breaker to sanding, along with electrics and control systems.

What goes into setting up of the production line?

The patented Classi forming machine is among the key pieces of equipment in the manufacture of particle board. Krifor has installed these, where the forming heads and diamond rollers have been completely manufactured in Germany.

To ensure European-standard board strength, we have also adopted the world's most advanced three-way dryers with high thermal and drying efficiency. It has 20 such (4x8-foot) hot press openings.

Dieffenbacher has vouched for the equipment installed at our plant in Surat, assuring that the boards





The bagasse-based plant near Surat can produce 220 cubic metres of particle board per day

produced through this production line will equal those manufactured by similar equipment in Europe.

What process does the bagasse go through before emerging in the form of boards?

First, a de-pither removes pith to give us a better quality board. A 350-kW Hammer mill gives us each and every fibre evenly separated. A mixing chamber maintains 6-7% resin at the core and 10% resin at the surface.

A metal detector helps identify foreign metal items and separates it from the production line. Eight-head sanding machines work for us to give a better and smoother finish. By adopting this technology, we are actually saving about 125 trees per day from being

felled and fed into particle board manufacturing.

What does Krifor aim to bring to the Indian market?

We are committed to establishing new benchmarks in the bagasse-based particle board segment in Indian and Asian markets. Our particle boards have the required strength and surface finish for application in various high-end commercial and residential readymade and assembled furniture.

What are your immediate plans for expansion of the market?

We have a very small team for sales. We have plans to spread across India. Currently, we have presence in West zone and have only just started spreading to the North.

We also look at the South market as very crucial to us. We are looking out for smart sales personnel to join our team. Krifor plans to add other product categories in the years to come.

Tell us something about yourself.

My total marketing and sales experience spans more than 25 years. I have been into panel products -- plywood, laminates, particle board and MDF--for around 19 years. Although I started my career in a fast moving consumer goods company, I got a good career opportunity in building material with a leading brand and latter shifted to panel products. I've also done my PhD in Marketing, which is absolutely out of my passion for the subject.



Understanding how ‘Wood is Good’



3-day international conference starts on 21 November in Bangalore

The stage is set for an international conference on ‘Wood is Good: Current Trends and Future Prospects in Wood Utilization’, which is being held in Bangalore from 21 to 23 November, 2014.

As a part of its year-long platinum jubilee celebrations, the Institute of Wood Science and Technology (IWST) is organising the conference, in which 150 delegates from different countries (including India) are expected to participate.

So far delegates from the US, Canada, Malaysia, Brazil, the UK, Australia, New Zealand, Bangladesh, the Philippines and Nigeria have confirmed participation. The venue will be the J.N. Tata Auditorium on the Indian Institute of Science campus in Bangalore.

The conference will have the following themes and sub-themes:

Theme: Wood Trade and Policy

- Demand and supply of wood: global scenario
- Demand and supply of wood: Indian scenario
- Wood certification

Theme: Advances in Wood Science and Technology

- Variability in wood
- Wood processing

- Wood protection
- Wood modification
- Wood-based composites and engineered wood
- Energy and chemicals from wood
- Nanotechnology applications in wood science

Theme 3: Wood in Reducing Carbon Footprint

- Life-cycle assessment of wood products
- Wood in mitigating climate change
- Recovery, reuse and recycling of wood products for a green future

The conference aims to provide a forum for wood industries, academicians and researchers to present and discuss the most recent innovations, trends, and challenges encountered in the field of wood science and technology.

Dr. Ashwani Kumar (IFS), Director-General of the Indian Council of Forestry Research and Education, Dehradun, will deliver the keynote address at the inaugural session.

Four eminent scientists in the field of wood science – Professor Jeff Morrell (USA), Dr. Mathew Leitch (Canada), Dr. Ederson Zanetti (Brazil) and Professor H.S. Mukunda (IISc) – have consented to be the guest speakers and share

their insights and vast experience with the participants.

The Malaysia-based Asia-Pacific Association of Forestry Research Institutions (APAFRI) and Leitz Tooling Systems India Pvt. Ltd., Bangalore, are the organizing partners. The conference is sponsored by Pointec Pens and Energy Pvt. Ltd., Associate Décor Ltd., Pidilite Industries Ltd., PDA Trademedia and WoodNews magazine.

IWST, which works under the Indian Council of Forestry Research and Education, Union Ministry of Environment and Forests & Climate Change, has the mandate of conducting research on wood science at the national level. It also caters to the research needs of the forestry sector at the regional level.

The institute is presently carrying out a wide range of research activities in wood properties and uses, wood processing and protection, wood modification, chemistry of forest products, wood-polymer composites, engineered wood, tree improvement and wood energy.

For details contact Dr. V. Ramakantha, Chairman of the Organizing Committee, (+918023341731; dir_iwst@icfre.org), or Dr. Krishna K. Pandey, (+918022190175; kkpandey.iwst@gmail.com, woodisgood@icfre.org).



Fevicol Adhesive Solutions for Woodworking Applications



Fevicol Hotmelt Products

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

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

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



Fevicol SWR Range

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

Fevicol PVC Fix

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



Fevicol SH

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



Fevicol SP Range

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

Membrane Press Range

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



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

Fevicol Heatx

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



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

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

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

Ahead of countdown, read what's ticking!



WoodNews takes a look at what makes it tick, as well as what is on offer this time!

North India's premier woodworking show, DelhiWood 2015, is looking forward to its fourth successful run, when the region's largest B2B get-together gets underway at the India Expo Centre and Mart in Greater Noida, near New Delhi.

Like its predecessors, DelhiWood 2015 will feature more than 450 exhibitors from over 20 countries, showcasing the latest in technology, hardware, software, tooling and accessories.

It will be brought alive with live demonstrations of operations of log peelers, panel saws, hot presses, edge banders and other efficient and path-breaking machinery, material and software.

The show will be of special importance to furniture & particle board makers, machinery & tool



manufacturers and consumers, saw millers & timber suppliers, architects & interior designers, forestry officials & other woodworking professionals in Northern & North-East India.

DelhiWood 2015 is expected to attract more than 15,000 business visitors. It will give top manufacturers, suppliers, specifiers and consumers in the woodworking industry a chance to meet and interact with woodworking professionals from:

- National Capital Region (New Delhi,

Noida & Gurgaon)

- Haryana (Ambala, Chandigarh, Faridabad, Hisar, Kaithal, Karnal, Palwal, Panchkula, Panipat, Rewari, Rohtak, Sirsa, Sonapat & Yamunanagar)
- Uttar Pradesh (Agra, Aligarh, Allahabad, Bareilly, Bijnor, Bulandshahr, Ghaziabad, Gorakhpur, Kanpur, Lucknow, Meerut, Moradabad, Muzaffarnagar, Saharanpur, Sitapur & Varanasi)
- Punjab (Amritsar, Bathinda, Fatehgarh Sahib, Ferozepur, Gurdaspur, Hoshiarpur, Jalandhar, Kapurthala, Ludhiana, Mansa, Mohali, Patiala, Rupnagar & Sangrur)
- Gujarat (Ahmedabad, Anand, Bhavnagar, Gandhidham, Gandhinagar, Jamnagar, Kalol, Kutch, Mehsana, Morbi, Navsari, 



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- Madhya Pradesh (Betul, Bhopal, Chhindwara, Dewas, Dhar, Guna, Gwalior, Hoshangabad, Indore, Jabalpur, Ratlam, Rewa, Sagar, Satna & Ujjain)
- Rajasthan (Ajmer, Alwar, Bharatpur, Bhilwara, Jaipur, Jhunjhunu, Jodhpur, Karauli, Kota & Udaipur)
- Uttarakhand (Almora, Dehradun, Haridwar, Nainital, Pauri Garhwal & Udham Singh Nagar)
- Jammu & Kashmir, Himachal Pradesh, Kolkata and from Arunachal Pradesh, Assam, Manipur, Meghalaya, Nagaland, Sikkim & Tripura in North-East India.

PDA Trade Fairs (also organizers of IndiaWood and MumbaiWood) has left no stone unturned. Its visitor promotion and media campaigns include presentations through road shows to large groups of furniture manufacturers and key industry associations, and focussed advertising campaigns in niche industry magazines and directories.

In order to attract the right visitors to the niche industry show, PDA Trade Fairs also undertakes mass media campaigns on radio and outdoor advertising to reach the correct target audience. It also distributes exclusive pre-printed visitor badges to its database of saw millers, hardware dealers, interior designers, woodworkers, timber and lumber merchants.

Exhibitor profile

- Raw material: Timber, veneer, laminates and wood composites.
- Machinery: Saws, peelers, presses, edge banders, moulders, tenoners, CNC routers, tools, dust extraction systems, finishing lines, etc.
- Consumables: Abrasives, adhesives, edge bands, coatings, paints & preservatives.
- Products: Particle board & panels, furniture fittings & decorative accessories.



Valuable Platform

So what really makes DelhiWood tick? PDA Trade fairs asked its exhibitors – Indian and global players, old faithfuls and new friends! – a few questions. How have the shows (the flagship IndiaWood, DelhiWood & now MumbaiWood) helped (or promise to help) the positioning of participating companies and their brands in the Indian market?

For Action Tesa, the MDF and door skins major, participating in PDA Trade Fairs' shows enables the company to meet scores of users and influencers under one roof. It also benefits by increasing awareness of its product range to a wider network with minimum time and effort.

Altendorf, the German leader in sliding panel saws, says the shows have acted as platforms for education of the industry as a whole. It feels that, especially for those who do not travel abroad, it is an invaluable chance to view first-hand new technologies and processes.

IndiaWood and DelhiWood are considered premier woodworking shows on the sub-continent by Italian giant Biesse, which has established an Indian 100% export-oriented unit in Bangalore. By attracting industry players from across the country, these shows "are a great forum to exhibit

and demonstrate our products. For sure it has helped in a big way to build and showcase our brand".

For the industry-seasoned team of the Bangalore-based, newly-launched Indian Finishing Technologies (IFT) team, PDA Trade Fairs is the obvious choice. These shows will act as a serious platform to forge ahead in the growing Indian market.

Infra Gloss, which is representing Turkish brand Glospan, is also a first-timer. It has reposed faith in DelhiWood to get acquainted with clients and the Indian market; to increase its awareness and to find good, long-term business partners.

Jai Industries – another IndiaWood regular and manufacturer of India's largest range of woodworking machinery – says these woodworking shows serve as important windows to showcase product ranges, company strengths and engineering expertise. The shows help establish newer and better national and international connections for future development and to strengthen its leadership position.

These expos have increased exposure to the target audience for Kaymo Fasteners, India's largest nailing and stapling tools. It has been able to generate many leads, and hopes to increase its outreach through the

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upcoming DelhiWood.

Mirka India, specialist in dust-free sanding and polishing solutions, makes its debut in DelhiWood, where it expects to enrich itself with information and gauge the demand of the woodworking market across India.

For market leader in speciality chemicals, Pidilite Industries, these shows have strengthened its brand, helping it to communicate with all participants of the woodworking industry.

Come One, Come All

We posed another question to our exhibitors: Apart from the decision-maker/proprietor of a business, how do production managers, skilled/semi-skilled workers and carpenters influence sales of their products?

Action Tesa felt carpenters and workers are important links to influence and promote any panel product. "At times, for small end users, they are not only the executor but the designer too," it noted. And it is to this community that Action Tesa seeks to communicate its latest technology and product strengths.

Altendorf states that in small enterprises decisions are taken by proprietors in consultation with machine operators, line supervisors and middle-level managers. Even in large companies shop floor managers generally indicate requirements and specifications to the technical committees.

Biesse vouches for operators and supervisors because they are the personnel who use the machines every day. Generally operators become comfortable with machines over a period of time; but they also know its drawbacks and limitations more than anyone else. They also appreciate the finer points that Biesse incorporates in its machines to make them user-friendly.

IFT goes all out to say: "100%. This time we are projecting our finishing equipment to small carpenters also. They certainly influence decisions in any business."

Jai Industries also bats for mid-level manager, operators and carpenters, saying their visits to such exhibitions give them exposure to new technology.

Live demonstrations and interacting with the company's technical and commercial experts also assist in determining a factory's requirement and arrive at attractive commercial propositions.

According to leading supplier, Woodtech Consultants, production managers and machine operators play a major role in the selection of machines. Woodtech would want all of them to visit such shows to understand the technology of woodworking.

Pre-register at www.delhi-wood.com to get your personalised visitor badge delivered to you.

WOODNEWS

The official publication for DelhiWood 2015 is WoodNews, India's largest circulated bi-monthly magazine for the woodworking industry. For write-ups and advertising, contact Binesh Viswanath (+919986014770) or email binesh@pdatrademedia.com.

Nesting technology

Kitchen Cabinets
MDF Cabinets Doors
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Nesting



Concept & Design



Edgebanding



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New products lined up

Action Tesa

- * Herringbone and king-size flooring products
- * High-density high moisture resistance boards in 18mm
- * HDF in 8mm and 12mm
- * MDF in 1.9mm

Altendorf

Ever since Altendorf invented the sliding table panel saw in 1906, new developments and innovations always take into account the requirement of the BRICS (Brazil, Russia, India China & South Africa) nations. At DelhiWood, Altendorf will showcase the latest developments.

Indaux India

The Spanish accessories major recently opened its Indian arm to exploit the growing demand for quality products. Indaux will debut with its top-level double wall drawer system (Ariane), sliding door fitting for suspended (Junior-6), and unique hanging system for suspended cabinets (Atlas). Visitors will be also able to see its complete range of drawers, hinges and sliding fittings for heavy doors and wardrobes.

IFT

Indian Finishing Technologies is launching its new PLC-controlled

automatic finishing machine, RainSpray (see page 70).

Infra Gloss

The Turkish brand Glospan will introduce its first UV-painted lacquer HG MDF, along with lacquered UV high-gloss and digital printing panels. It will also unveil a worktop brand, Bonus.

Jai Industries

In its 50th year of operations, Jai will launch a whole new 'Prima Series' in its WudPro solid wood range, as well as in the Modula panel processing range, to meet the fast expanding market of panel work in India.

Kaymo Fasteners

It will introduce new and upgraded models of certain existing products of pneumatic, electric and manual staplers, coil nailers, brad nailers, pinners, carton staplers, hand tackers, hammer tackers and compressors. Its niche products – ratchet nailers, concrete nailers, composite staplers and corrugated fasteners – will also be on display.

Mirka India Pvt. Ltd.

As part of its "100% dust-free" sanding solution and high-gloss polishing system Mirka is launching the 'Net by Mirka' and 'Polarshine'

range at DelhiWood. It will serve as an efficient and complete "surface preparation and finishing solution" for wood furniture and interior decoration markets.

Omni Impex

The distributor for chainsaw giant, Oregon Cutting Systems (Portland, US), will showcase the latest 18-inch chain saws and inbuilt sharpening technology, the PS250 pole saw (with reach of up to 15 feet), string and hedge trimmers. Among its star attractions will be its powerful 40V cordless tools and lithium battery that recharges in 60 minutes. The battery can be charged up to 1,000 times (full charge/ discharge cycles).

Pidilite

The new water-based adhesive for PVC molded doors can be used as a single or double component adhesive. It is a low-VOC product with superior heat and water resistance. A synthetic primer for WPC/PVC foam sheet will also debut at DelhiWood.

WoodTech

The economical Barberan flat lamination line, used for laminating high-gloss HPL laminates, acrylic and veneer on sheet forms and PVC rolls, will be the star offer from WoodTech.

Official Hotel Partner:



Contact Mr. K.B. Dhawan, General Manager (+91-981120563 or +91-120-3355600) at Ansal Plaza, 1-C, Institutional Area, Destination Point, Greater Noida-201304 (Uttar Pradesh).

Official Accommodation & Travel Partner:



Contact Mr. Sudip Sinha, Business Head-MICE (+91-9711155780) or Mr. Apar Yadav (+91-9811970698) at T-2, Community Centre, Sheikh Sarai (Phase-1), New Delhi-110017. Email: sudipsinha@ith.co.in or conferences@ith.co.in.

How to get there

It is quite easy to reach the India Expo Centre & Mart, Greater Noida, the venue for DelhiWood 2015. Use the Delhi Metro and our shuttle bus facility from Botanical Garden (Metro Station) in Noida for fast and convenient travel to and from the venue.



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HTZ-800



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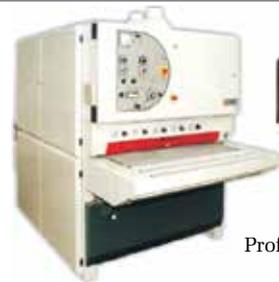
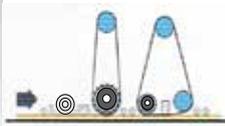
- Hinge recessing.
- Lock face plate recessing doors slots etc.

Louvers

SANDING MAX



Wide Belt Sander



Profile Sander

Segmented Pad



Multiple Rip Saw



Straight Line Rip Saw

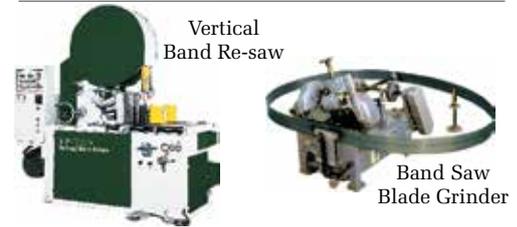
Automatic Through Feed Edge Banding (Compact Machine)

Portable Edge Bander

Manual Edge Bander



Vertical Band Re-saw



Band Saw Blade Grinder

Three Head Multi Boring Machine

Hydraulic Hot Press 1/3/5 Day Light



Rectangular Tenoner DAD-115



Oscillation Mortiser MOM-130

Auto Panel Saw

High Speed Router

Spindle Moulder



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Recreating Polynesia in Dubai



 Porterhouse Bar

Located on the iconic Palm Jumeirah, Sofitel The Palm boasts 361 island chic inspired guest rooms and suites, as well as 182 fully serviced apartments

The resort is encapsulated by a private 500-metre stretch of pearlescent beach, enabling guests to indulge in breathtaking sea views overlooking the shores of the East Crescent. Totalling more than 1,00,000 square metres, Sofitel The Palm Dubai's distinct French luxury offering is embraced by rich and iconic elements of Polynesian culture and civilization.

With an abundance of stunning organic architecture and lush vertical gardens, the resort reflects a timeless spirit and tropical allure. It has been modeled on a Polynesian village, fresh with green foliage, cabana-style fittings, and flowing water features that greet guests as soon as they step inside.

The lush, green, vibrant environment is the brainchild of Mahnaz Liaghat, CEO of Mahnaz International Design & Planning. The lobby itself is set below a traditional, natural wood cabana, complete with tranquil water elements that complement guest relaxation



 Villa

dappled sunlight peeking through the treetops.

According to Mahnaz, iconic symbols support the overarching design concept that gives the resort its unique and memorable identity. These symbols have been incorporated throughout the design to unify the feel and tone of the individual spaces. The positive message each carries with it reinforces the overall purpose of the resort itself.

Wherever guests wander, they are accompanied by traditional Polynesian motifs. Intricate details of the Koru, Gecko, Tiki, Turtle, Butterfly, and Tiare flower can be spotted on doors, walls, and floors; all of which symbolize peace, freedom, energy, connection, life, and new beginnings.

A tiki comes in many forms, offering protection from evil spirits and its traits can take the form of what one wants the tiki to express. It is thus only fitting that the main entrance to the hotel features the tiki symbol on the massive wooden doors.

Rediscovery Awaits

The lobby of the Sofitel The Palm Dubai carries the guest through to the resort outside, where personal



 Hotel Lobby

areas. A special feature of the ground floor is a "living wall" vertical garden planted by renowned botanist, Patrick Blanc.

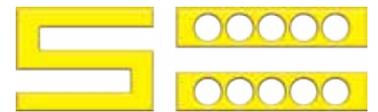
Corridors and smaller spaces have been specially designed to evoke the fresh feeling of a green village, with plenty of American ash, bamboo, and earthy-toned surroundings. Taking a stroll through the hotel is in fact like walking through the woods, with





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Thick is beautiful!



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Say goodbye to 30/32mm doors.**

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The tubular infill boards are **ecofriendly and green product initiative** replacing the 80% of timber used internally as door infill which dramatically improves the performance of the door.

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Sauerland launches a 34/38 mm tubular board which will be the heart of the 40/44 mm door with 3 mm skin both sides. These European thickness doors are available from all leading door manufactures. Contact us for details to know the supplier closest to your construction site at sleekboards@gmail.com

Pics: Eric Cuvillier



 Prestige Suite

rediscovery awaits. The ceiling is designed as a cabana and features the extensive use of American ash to reinforce the experience. To emphasize the experience, lights bounce off the dynamic wood on the ceiling and combine with the green wall to give a truly spiritual meaning to this memorable space.

Further, natural materials like water, stone, and wood, and the contrast

different Polynesian islands, combines wood and reeds and indirect light to bring memories back as if one were walking through nature.

The impressive ballroom celebrates life and its richness through the use of American ash in its ceiling, which has been designed to represent the bottom of a canoe. The canoe, which is integral to Polynesian culture, represents the progress along life's journey and is a symbol of changing life, travel and adventure.

All living spaces here provide a relaxed environment that focuses on the beauty and simplicity of nature. Furniture and fixtures have been carved out of natural dark woods, predominantly stained American ash, raw stone and pale onyx. Indirect lighting in all living spaces evoke standing under trees in a forest, with the sunlight dappling through hundreds of leaves.

Design Needs

Explaining the decision to use American ash, Mahnaz says: "Originally we specified reconstituted African walnut in an attempt to stay within the original budget. However, the client was keen on an exotic wood, which at the time did not match well with the design aesthetics of the project.

"American ash, with its open grain finish and coarse uniform texture, was readily available, in line with the budget, and could satisfy the design requirements of the project. Looking at the resort today, I am proud that it stands as a unique product that is a testimony of the complete design," Mahnaz concludes.

Venturing into the resort is like taking a stroll through a village, along brick pathways, meeting thatched-roof huts that gradually wind down to the unspoiled seafont. Lined with palm trees, the secluded stretch of beach affords magnificent views over the east crescent of Dubai's iconic Palm Island, and as far as the eyes can see out into the crystal blue waters of the Arabian Gulf.

The American Hardwood Export Council (AHEC) is the leading international trade association for the US hardwood industry, representing committed exporting US hardwood companies and all the major US hardwood production trade associations. It runs a worldwide programme to promote American hardwoods in over 50 export markets, and also produces a full range of technical publications.



 Cha House

of captured dark and light shadows and shades symbolize a journey through villages and passages to new experiences.

Other noteworthy elements in the hotel include the checkout counter with its sculpted American ash wood trunks: a departure ticket to remember, according to Mahnaz. The lift lobby, which acts as a transition between the



 Ballroom



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‘Liquid wood’ could be the new solution



We try not to think about the overwhelming presence of plastic in our lives as we drink from plastic bottles with plastic straws, or shove hundreds of plastic bags into our pantries. Now, thanks to the persistence of German scientists, a new

substance may have the ‘going green’ answer.

Arboform, or more popularly known as liquid wood, is being called the solution to the human dependency on plastic.

Arboform was developed in 1996 by Helmut Nägele and Jürgen Pfitzer at the Fraunhofer Institute for Chemical Technology. In 1998, they founded the spin-off company Tecnar, and received the European Inventor Award for their work. By 2002, the company produced about 300 tonnes of Arboform and was selling it at about \$5.5/kg.

Liquid wood is a biodegradable alternative to plastic. Tecnar offers a nice fix with their sulfur-free version of Arboform that can be used for children’s toys. But why hasn’t Arboform made plastic an obsolete thing of the past? Liquid wood is eco-friendly, but it is too expensive. Europe, Australia, Brazil and Columbia are using it.

The new thermoplastic material made exclusively from renewable resources is based on lignin, a natural polymer which is formed by photosynthesis and makes up about 30% of the substance of every tree and every wood plant. Lignin gives natural, grown wood the necessary compressive strength, which cellulose cannot provide.

By varying the composition of Arboform, both in terms of quality and quantity, it is possible to adjust strength, rigidity, dimensional stability with varying temperatures, and other

material properties so as to suit specific product requirements. The material is 100% made of renewable resources and is marketed by Tecnar GmbH under the name Arboform.

By mixing specific types of lignin with natural fibres from wood, flax, hemp, sisal or other fibrous plants and natural additives a composition is produced which can be processed at raised temperatures. This material is made into mouldings, sections or panels on conventional plastics processing machines in just the same way as a petrochemical thermoplastic material.

Disposability

Being made one hundred percent from renewable resources, an Arboform product, at the end of its useful life, can be disposed in professional refuse incineration plants, like wood, without hesitation.

This means that the incineration of the product will emit into the atmosphere just the same amount of CO₂ that the plant previously took from the atmosphere while it was growing. So this is a closed CO₂ cycle without any accumulation of CO₂ in the atmosphere and, hence, no more adding to the greenhouse effect.

Moreover, it goes without saying that, given the appropriate surroundings, certain Arboform formulations are compostable or biodegradable, should local circumstances make incineration appear uneconomic.

Arboform also has a number of technological advantages over



synthetic plastic compounds as a strong engineering material, either on its own or in a composite with natural wood. The development of substrate mouldings for fine veneers is a particularly impressive point in case.

Thermal tolerance

A material to be used in applications, such as substrates for fine veneers in automobiles, needs to withstand high thermal stress in terms of both temperature variation and negative or positive maximum temperatures. Because of the large differences, by a factor of about 10, that exist between the coefficients of thermal expansion of wood and of plastics it is only with difficulty that fine veneers can be placed on plastic substrates where high thermal standards have to be met.

The expansion coefficient of the plastic material being higher than that of the wood veneer, the latter will either split at right angles to the main axis of strain, or there will be localised delamination of the veneer from the substrate moulding at increased temperatures. This is where the technological advantages of the wood-like character of Arboform come into play.

Thanks to the fact that the expansion coefficients of the Arboform substrate and the covering wood veneer layer are nearly the same, thermal stress is no longer a problem and does not lead to product failure.

Items such as futuristic furniture styles using highly accurate inlay work, for instance, could be made economically in mass production using Arboform. Most fasteners used in furniture making are of wood or metal, as plastic materials are ductile and not suitable for use as pins or dowels under permanent load.

An Arboform dowel, however, will either withstand a given maximum load, or it will break, so it just needs to be sized larger to suit the purpose. The important thing being the fact that the material will not flow away under load.

Moreover, unlike metals, Arboform components or fasteners can be machined easily without the need to take into account different types of material. This is very helpful in avoiding assembly problems. Also, unlike plastics, chipboard or laminated wood, waste from machining Arboform can be incinerated safely just like natural wood.

Moulded wood

It is now possible to make wood instruments of very high and reproducible accuracy, thanks to the superior moulding accuracy of Arboform. The acoustic quality of Arboform instruments has been found



The use of Arboform with injection or compression moulding technologies (see page 40) reduces the process cost for the manufacture of a shaped component considerably, as it eliminates the traditional, time-consuming machining of solid wood or laminated woods completely.

to be excellent by a number of experts. Arboform consists of the two most abundant natural materials.

It has a similar composition, appearance and properties to those of wood, but it can be melted upon heating and molded like a thermoplastic.

It has been designed to

- contain no synthetic phases,
- have mechanical properties similar to those of polyamide,
- be thermally stable up to at least 95 °C,
- be moldable at temperatures below 160 °C.

When the amount of cellulose in Arboform is increased from 30 to 60%, its tensile strength increases from 9.5 to 14.5 N/mm² and bending stress increases from ca. 23 to 39 N/mm², while the indentation hardness and impact strength remain almost constant at ca. 135 N/mm² and 3.2 mJ/mm², respectively.

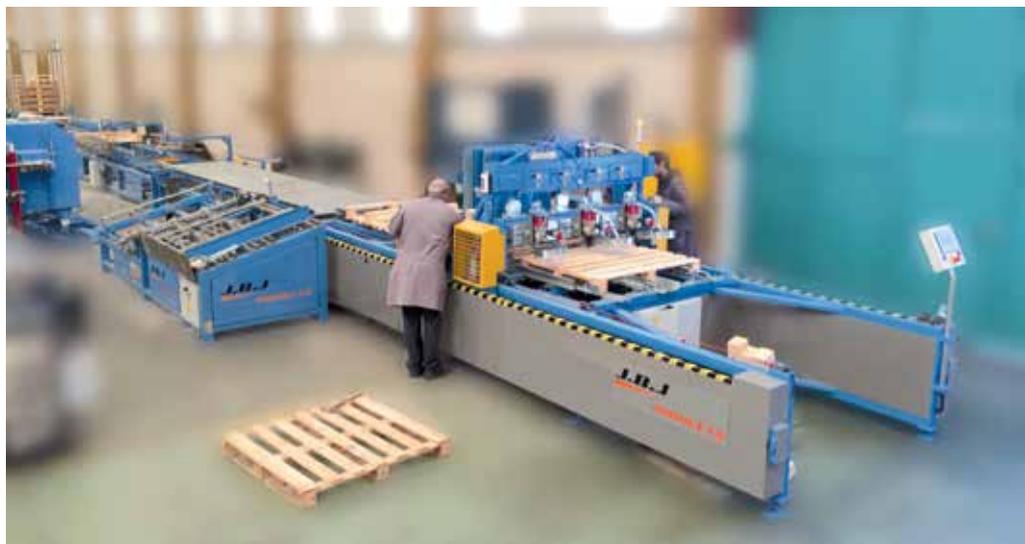
Other typical properties of Arboform are: thermal conductivity 0.38 W/(m•K), electrical resistivity ~5 GOhm, water content 2–8%.

The matrix of Arboform consists of lignin, which is a by-product in the cellulose pulping process and so is just as highly constant in its quality as the cellulose for papermaking.

Arboform brings two industries together. It puts the wood processing industry in a position to make products with design geometries that in the past were only feasible economically with the use of plastics. And, conversely, it puts the plastics processing industry in the position to process the warm material wood just like a conventional thermoplastic material.

www.tecnaro.com

Pioneering automation in pallet production



First step of automation in pallets industry of India, Barton brings complete installation with the brand name of JBJ

Barton took another flight in its journey of giving solutions in the category of pallets by putting up a very big and essential project for assembling pallets.

Barton is doing it again, as it did 15 years back, when it introduced automatic installation of sawmills to India. This time it is the automatic installation of assembling pallets with the brand name of JBJ.

Pallet industry in India is big, spread all over the country yet unorganized; almost all the job in the industry where pallets are made is done manually. But from now on, with the automatic solution, one can produce more pallets without incurring huge expenses in managing large manpower.

With the 'Make in India' mission of the central government, Indian markets will see a big demand of pallets. So each and every manufacturer of pallets must be ready to have appropriate and manageable infrastructure according to the demand of pallets in its region. It is easy to understand, when lot of national and international manufacturing units will come, they will require a good quality and quantity of pallets to export or move their product within India.

The project which Barton is going to undertake in India very soon is a mix of semi automatic and complete automatic solutions

for assembling pallets. One very prestigious project is going to be installed for Shiv Shakti Timber Industries in Hyderabad, which is a very well known brand in the sector of providing pallets to the Indian market.

They have been providing services to Indian market since last 30 years. Mr. Shankar Patel, Managing Partner in Shiv Shakti Timber Industries, foresaw the need of automation in his plant, he visited Barton in Spain with his team of technical expert and finalized a complete automated project in this visit itself.

The project in its complete version consists

- Two double semi automatic nailing stations
- One automatic nailing station
- One conveyor equipped with centralizing device
- One ¼ turner device
- One branding station (up to six simultaneous points)
- Corner cutter
- One turner and pallet stacker
- One output conveyor
- Production capacity: 1500-2000 pallets/one day shift
- Manpower required: 5-7 people

Types of pallets which can be assembled in JBJ semi automatic and automatic line

- American pallets
- 2 way wing pallets
- 4 way entry parametrical

pallets

- EUR/EPAL pallets
- Pallet CP1-CP9
- 4 way pallets
- All pallets are of international standard

Advantages

- Very small manpower is required for producing so many pallets.
- Quality of pallets is of global standard when pallets are done automatically.
- Wastage of planks and nails is minimised.
- No accidents and healthy environment for labour.
- Production can be maintained on international standards.

The most important part of solutions for assembling pallets is that Barton has different types of lines for different types of requirements. If some manufacturer requires producing only 500 pallets in a day and another manufacture requires producing 800 pallets in a day, Barton has solutions for both the manufactures.

If some manufacturer does not require corner cutting of pallets, Barton has lines without corner cutting as well. So power, manpower and prices will vary according to the requirement of clients.

For details visit: www.barton.es

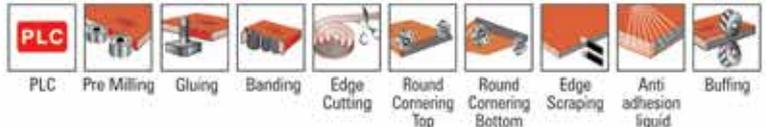


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J-3000.in (manual)
Curvilinear Edge Bander



Edge Trimmer J-3003R.in (manual) (Radius Trim)





Egger presents new laminate flooring

Pics: Egger



Egger's new laminate flooring collection brings together a multitude of cutting-edge decors with technical innovations and services

For the first time, the global manufacturer offers the new Egger laminate flooring collection 2015-2017 to the global market exclusively under the name of Egger. The choice to not use an additional collection name is a conscious one. In this way, Egger underlines the advantages of its strong brand: wholesalers, fabricators, and even end customers benefit from

this clarity, the multitude of decors, and the comprehensive service of the collection.

"The claim 'Always up to date' means a promise to our customers that with this collection we will remain in step with the times from every point of view," says Michael Gerbl, head of marketing and product management for Egger Flooring. Here he refers to

service, the fact that decors are up to date, and ease of handling. These aspects guided the Egger team while developing the collection as well as all advertising materials and tools used for it.

The Egger Laminate Flooring Collection 2015-2017 includes 70 decors with eight surfaces in five formats, which correspond to the most varying design





styles and customer requirements. The focus is on the trendy oak look. This is already in itself an attractive offer.

However, with this offer, Egger takes a big step further, and adapts the collection to the specific needs of the



respective markets. “People in different regions have different preferences when it comes to colour, look, and format. We have done a lot of research in the markets, used expert knowledge, and done intensive development work. In this way, we can offer our wholesale partners and fabricators the products that are most suitable for their customers,” explains Stefan Pletzer, Managing Director of Egger retail products.

Moisture-resistant, quick to install

In addition to the multitude of decors, the technical features and the related utilisation options of the new laminate flooring also manage to convince the end customer. Floors with aqua+ technology are available for the first time in an Egger collection. These are moisture-resistant and thus can be used in wet rooms, including the bathroom. “This new product group opens up new possibilities in both the private and commercial areas,” says Michael Gerbl.

The longboard is another novelty in the range of products available. The long format (2052 x 248 mm) meets

the requirements of the still reigning trend towards open living. The board character of the long format is in particularly high demand for rooms that seamlessly merge with each other.

A lot of development work also went into the surfaces of the floors. The trend towards the very authentic textures, perfectly aligned with the decor, continues to dominate.

Textures with a pleasant feel, such as Authentic, Barrique, Vintage and Grand Canyon, belong to the anti-slip class R10, which provides the end customer with safety, living and walking comfort, and easy cleaning. In addition, the fact that there is no decor repetition in the package provides a final look that is in no way inferior to real parquet.

Everything simple

Dealers and professional fabricators may use the online shop at www.egger.com/shop to easily and comfortably order floor samples and advertising materials, such as brochures, as well as sample collections to advise their customers.

With the room visualisation software VDS (virtual design studio), Egger also offers digital solutions, which simplify the consultancy work of the interior designer or the floor installer (VDS Profi), and help the end user (VDS Mobile App) make a decision.

New promotion standards

Egger is also taking innovative paths, reaching into new dimensions, for the promotion of the new laminate flooring collection.

All advertising material for the collection is of top quality and optically adapted to the rest. It guarantees optimal sales talks at POS and a recognition effect in the end customer. 30,000 of the established collection cases, with original samples and decor books with large sample images and room situations, were made available. 10,000 updated displays guarantee optimal presentation of the goods at POS throughout the world. One true innovation is the end consumer brochure called ‘Laminate Flooring – Home Decor Magazine’ put out by Egger for the first time.

The brochure was issued in more than one million copies and 18 languages, in order to durably increase market recognition by end customers, as well as to actively support specialised trade. In addition to the core topic of laminate flooring, it also deals with various interior design styles, provides insight into colour science, and offers useful tips concerning the home. 

Egger laminate flooring 2015-2017

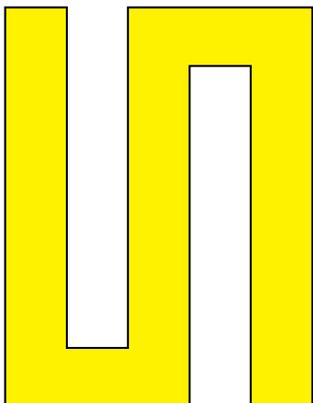
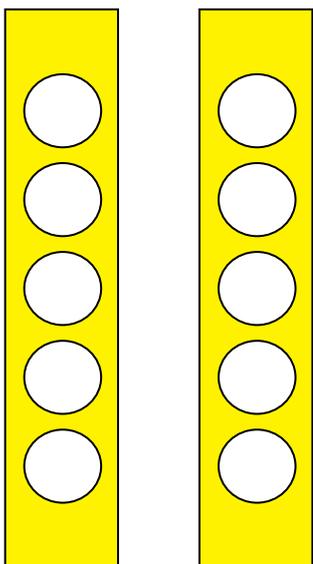
- New laminate flooring collection with 70 decors per region laminate
- Motto: Always up to date
- First presentation for wholesalers on 11/12 September 2014 in Berlin
- Technical highlights: aqua+ technology (moisture-resistant flooring), longboard, authentic surfaces
- First end consumer brochure (more than 1 million copies in total) to increase market recognition
- Market launch: September 2014 - January 2015

For further information contact: sebastian.finger@egger.com or arvind.katyal@egger.com





Need to turn over to new Green door specifications



Sauerland Spanplatte

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

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

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

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

the performance of the door in the following manner:



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



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



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





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





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




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



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




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



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





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

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

Biesse India's new Jade 345

Top notch edge banding with a 'grooving' option



Biesse India's best selling Jade 300 series of edge bander gets an upgrade in the form of the new Jade 345. This makes the range more complete with offerings that are on par with the components/solutions generally seen in very high end imported edge banders.

The Jade 345 was conceptualized in line with Biesse's philosophy of offering Indian customers the very best of solutions available globally at down to earth prices.

The Jade 345 is an extension of the heavy duty workhorse, the Jade 340, which has been much appreciated by our customers over the years. The Jade 345 has a grooving/ milling unit, which makes possible grooving on the panel with edgebanding for back panel insertion.

With this option, one additional back panel insertion operation can be carried out in the edge banding machine itself, ensuring faster production cycles, less panel handling ensuring less damages on the panels and a superb finish.

Machine working units and features

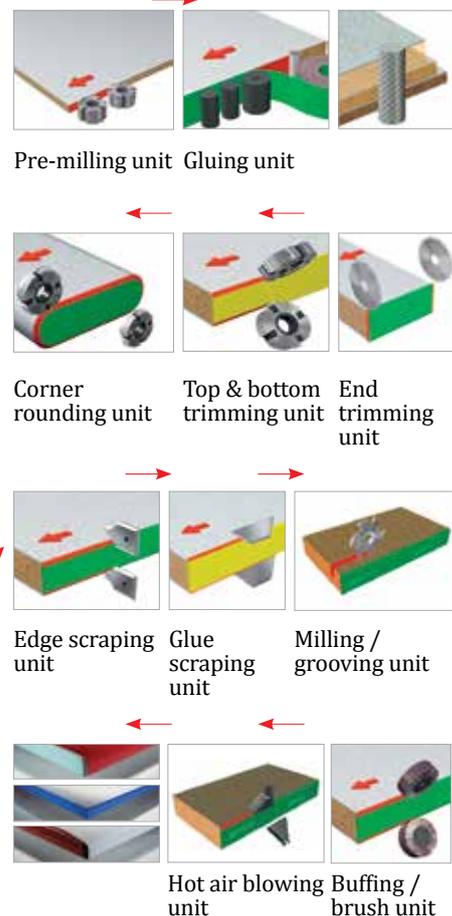
The Jade 345 is an automatic single-sided edge bander capable of applying



a perfect finish to edge banding material such as PVC, veneer coils, and single strips of HPL and solid wood. The machine working speed is 12 - 18 m/min and can apply edging material from 0.4mm to 3mm and solid wood strips of 12mm thickness.

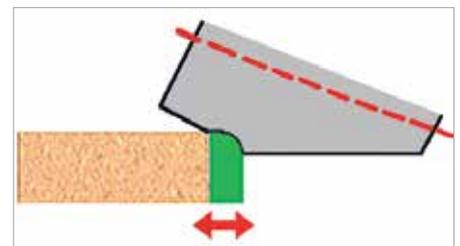
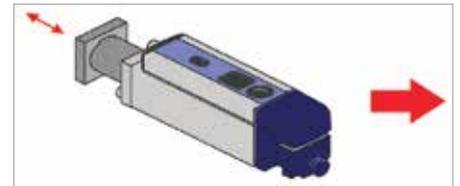
The machine can process panels between 10mm to 60mm thickness. The hallmark of these machines is perfectly edged panels time and again.

The machine components or the available units and their sequence of operations are as below:

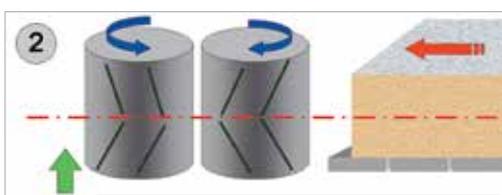
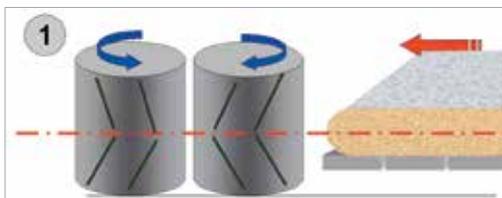




Control panel: the machine has as a standard 10" high resolution touch screen control panel. Windows embedded operating system with SINTRA HD.



Multifunction two motors rounder CR-200V, has as standard, 4 positions fast system to change machining operation (e.g. 0.4 / 0.6 / 0.8 / 2 mm and vice versa) through numerical control.



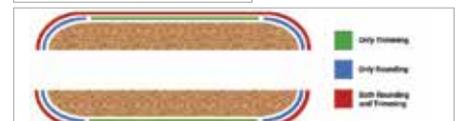
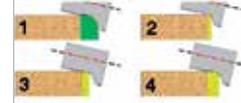
Pre-melting system can also be incorporated in the machine for EVA glue, ensures sufficient glue availability and no need to keep adding glue in the glue pot, ideal for mass production.



The machine has as standard the AUTOSET device for Pre-milling unit. It improves quality by ensuring a chipping free panel edges and uniform wear on the cutter.



Possibility of having numerical controlled axis for automatic overhanging removal from the control panel on the pre-milling unit.



High glossy kit: the Jade 345 has the possibility of edge banding of high gloss edge banding tapes on high gloss panels with the addition of high glossy kit with the machine.

www.biessemanufacturing.com





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

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

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



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

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



Why does door hinges loosen after some time?

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



Why does cabinet shelves started to warp after some time?

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



Why is my furniture made of particleboard swell?

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



Why are Bending Strength and Internal Bond of Particleboard important?

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



Spray machine from Indian Finishing Technologies

Rainspray is a plc controlled automatic spray machine suitable for painting raised panels, panels with profiles and carvings. The machine comes with paper covered belt conveying system with available working width of 1300mm. The paper belt system is simple and cost effective process of managing production.

The machine has four circuits for different application, hence reducing the consumption of solvent involved in the cleaning process. Each circuit is dedicated for top coat, sealer, pigmented, and stain application.

Added advantage

Rainspray has single arm base plate which can be detached from the machine easily and quickly for cleaning and maintenance. This machine is particularly suitable for spraying small batches of workpieces that require frequent colour changes.

The conveyor belt with holes provides with a vacuum operated system which holds the paper in its position preventing the paint from entering below the panel. The dirty paper is automatically rolled separating the belt

from the paint. The system reduces the time spent on cleaning of the machine.

The pressure control and the automatization are positioned in the front panel for easy access for the operator while monitoring the functioning of the machine. The manual override switches for four guns are also located on the front panel.

The operator need not switch off the machine and open the door every time to check the spray pattern.

The oscillation systems are efficient and suitable for long working hours. Each component in the systems is of top brand. Any load variation in the oscillation system is taken care by a mechanical system which does not affect the belt actuator during continuous working hours.

Rainspray has two blowers pressurization. The air coming into the machine is filtered twice before entering the cabin. Hence the machine works very efficiently in dusty environment too. But the painted panel should be kept in a clean room for drying as dust could stick on the wet paint.

Technical specifications

Working width	1300mm
Max work piece thickness	90mm
Working height	900mm
Conveyor speed variable	1.5m/min
Exhaust air volume	8000m ³ /h
Electric power	6kW
Compressed air	5Nl/min
Solvent exhaust	6000m ³ /h
Machine length	3510mm
Machine width	3965mm

Rainspray electrical cabinet consists of 10" touch screen which is very easy to operate. The programs are user friendly, a 100 programs can be saved in the system for different applications.

The VFDs are protected by line inductor and breaking resistor which prevents spikes that damage the inverter. The PLC is protected by an inbuilt servo stabilizer, which avoids extra cost to the user.

Rainspray machine comes with a painting station developed by Indian Finishing Technologies. Here in this system the mixing of paint and the amount of paint applied on the panel can be easily monitored to get excellent finishing with proper grammage and less wastage.

www.indianfinishingtech.com





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The NLX and HX series: Master combination from Robland



NLX 310 panel saw with sliding table and mitre fence assembly

Robland in India needs no introduction. It has been a well known brand in the sub-continent for the last four years now. Robland's popular model, the Z3200 panel saws and other machines are working with high efficiency and pride in plants where they were sold all over the country.

Robland has now sold over 250 units of its machinery which includes heavy weight and value-for-money panel saws, multi spindle drilling machines, combination machines, planers and thicknessers, and many other accessories like feeders, dust extractors, etc.

Many of the woodworking units in India are opting for smarter solutions when it comes to prototyping and smaller batch size production.

Whenever it comes to saving space, power, and investment, the R&D department in any manufacturing unit produces a prototype to test accuracies and other feasibility issues of the product prior to mass production. However, to begin the prototyping of the sample product, it is not wise to disturb the normal production line to experiment with the new design and so on. A combination machine finds importance in such places, which can deliver an accurate product without creating a bottleneck in the regular production line.

Robland manufactures such high quality combination machines to cater to such requirements which are common in small to big furniture manufacturing companies all over the

globe. The NLX 310 is a beauty and a winner when it comes to catering to all the above mentioned requirements.

This machine is a combination of a panel saw with (up to 2500 mm) sliding table and with the mitre fence assembly, a spindle molder, planer, thicknesser and a mortising unit. Although there are five machines combined in one single unit, we can perform six different operations.

This is because the mortising unit can also be used for drilling operations. The NLX sliding table also consists of a scoring saw which can handle the cutting of pre laminated boards to precision and without chipping in the laminates. These boards, when edge banded later, have a fine finish and the output is more or less equivalent to





The space and power saving HX 310, also available with tug wheels

the one obtained from beam saws. The NLX comes in different models called the NLX 310 (12 inches) and the NLX 410 (16 inches).

The difference is in the width of the planer and thicknesser capacities. The NLX combination machine is an excellent choice for industries where there are shortages in manpower, space, power and capital investments. Some of the significant features of our NLX machines are:

The HX Series of combination machines are also rigid and compact machines with the same configuration of a sliding table without tilting facility, spindle molder, planer, thicknesser and the mortising unit. However these machines are built only for solid wood processing and come without the scoring saw on the sliding table.

The sliding table length is also limited to 1250mm. Special products in solid

wood like doors, windows and other frames can easily be processed on these machines. The HX series is for manufacturers with very low budget and who have limitations in space, power and investment.

With only a few limitations when compared with the NLX, the HX can be a great asset to any manufacturing unit and can project itself as a standby to any of the other stand alone machines in a plant.

The machine also consists of three high quality and reliable electric motors which total to a requirement of 12HP to operate (each motor of 4HP). However, the utilization of power is controlled and limited since you can execute only one operation at a time which in turn switches on to only one single motor pertaining to the operation required.

The HX 310 weighs a solid 540 kg and can work without vibrations and

other shortfalls at full capacity. Due to its compactness the HX 310 is also available with tug along wheel system which enables you to tow the machine manually to any corner of your production floor.

Robland also has plenty of other high quality stand alone machines to cater to the solid wood processing sector. Some of them are the S410 - Planer , the D630 - Thicknesser , combination planer/ thicknessers – models NXSD 310 and 410, spindle molders – model T 120 (three models) with different options like extended tables, tenoning attachments etc. Robland has sold all these machines all over India to various reputed clients who are highly satisfied and continue to send in their orders for other requirements.

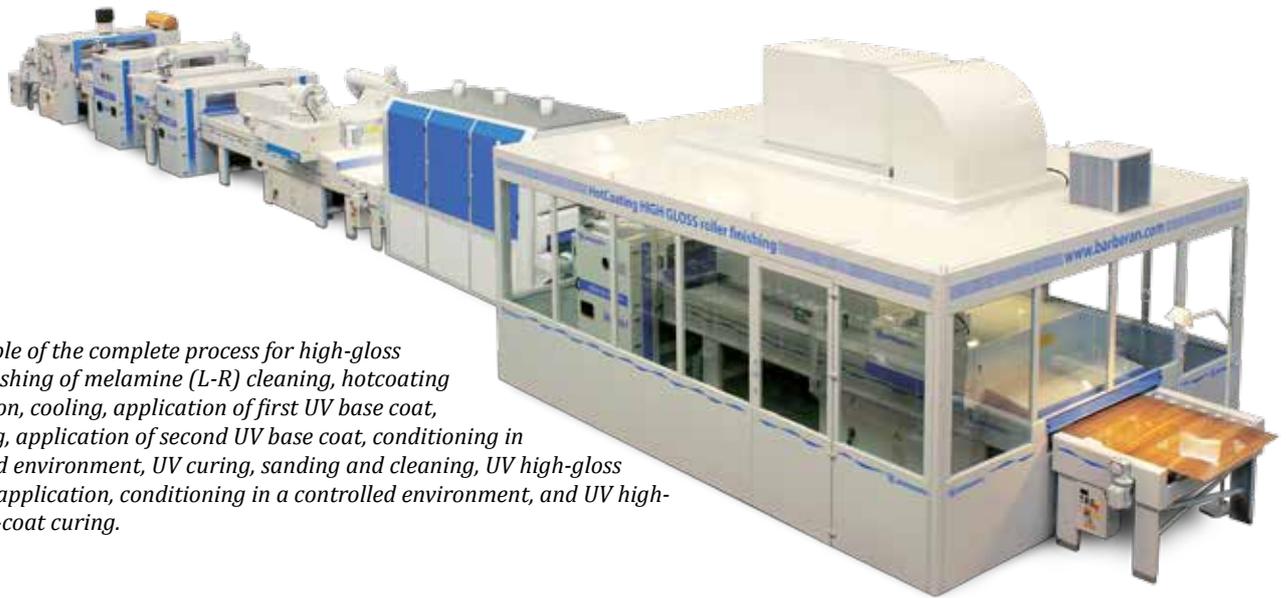
Robland's main office in Bangalore also houses the 'Vebim' section where you can also avail good condition pre-owned panel processing machinery of reputed makes like SCM, Homag, IMA, etc. On confirmation and confirmed orders from interested clients in India, we import such machinery from Vebim's headquarters in Belgium, which houses more than 450 machines in a huge warehouse.

www.vebim.com

Technical Data - NLX			
Sliding table	1700mm long (optional 2500 mm)	Feed speed	6m/ min
RPM - single	4500rpm	Thicknesser capacity	230mm
Main saw/ scoring saw	300mm/ 120mm	Table dimension	310 x 1400mm
Tilting facility	available	Maximum depth of cut	4mm
Power required	3Ph/ 3HP	Power	4HP
Spindle molder		Mortiser	
Diameter of spindle	30mm (50mm optional)	RPM	5200
Stroke	140mm	Stroke	Left-right/ in-out/up-down
Speeds	2900/4000/6000/7500rpm	Dimensions of table	165 x 140 x 85mm
Power	3ph/ 4HP	Chuck capacity	0-16mm
Planer/ thicknesser		Machine dust port	100mm
Diameter of cutter block	70mm	Machine weight	700kg
No. of knives	3 Nos.	*Various other options like TERSA cutter, tenoning table etc. are also available.	
Knives dimensions	310 X 25 x 3mm (410mm optional)	*100% imported from Robland's Belgian plant.	
Cutter block length	310mm		



Complete process for HotCoating from Barberan



An example of the complete process for high-gloss roller finishing of melamine (L-R) cleaning, hotcoating application, cooling, application of first UV base coat, UV curing, application of second UV base coat, conditioning in controlled environment, UV curing, sanding and cleaning, UV high-gloss top-coat application, conditioning in a controlled environment, and UV high-gloss top-coat curing.

High gloss roller lacquering system for finishing melamine surfaces

This process, patent pending by Barberan, uses the product HotCoating from the adhesive manufacturer Klebchemie M.G. Becker GmbH, better known as Kleiberit, which allows application of coating directly on the melamine surface without the need to apply primer first.

HotCoating presents exceptional adhesion properties, providing excellent strength at the same time. This process is interesting, not only for melamine surfaces on MDF boards, but also melamine laminated particleboard panels.

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

The roller application system is



Barberan's Linea Alto Brillo not only provides 'mirror finish' quality, but also ensures perfect adhesion of the UV high-gloss products on melamine.

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

Different line configurations are possible but always depending on production requirements, starting from the application of UV top coat directly on the HotCoating up to the combination of HotCoating, UV base and top coat and sanding for a spectacular finish quality.

The effectiveness of this process was duly tested on different application fields of the furniture and decoration industries where a melamine coated particleboard or MDF board was involved.

This process solves the typical difficulties in this type of treatment, like not enough adhesion of the products or other problems during cutting



You Are Invited

To Become a Member of

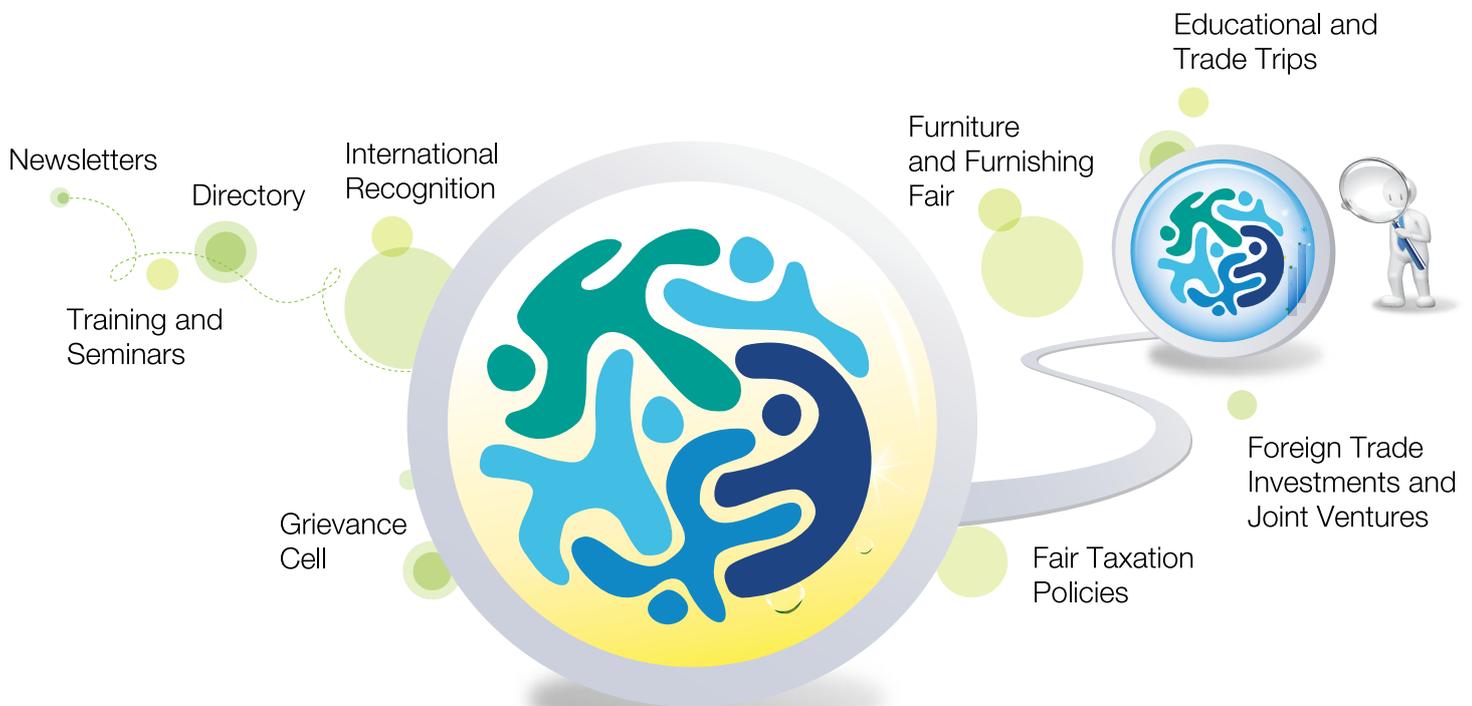


a . f . m . t

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.



Apply for Membership online at www.afmt.in

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Official Magazine

WOODNEWS



and drilling, etc. with a compact installation that improves the product properties, resistance and durability, above those results obtained with conventional UV systems.

Furthermore, as the HotCoating product and the ultraviolet lacquers with 100% solid content do not include solvents, this process does not produce emissions that could affect the atmosphere, being totally

respectful with the environment.

This process is also suitable for different types of substrates, such as printed boards, digital printed boards, cork, wood veneer, decorative paper, HPL/CPL. Barberan has a fully equipped test room to run trials with customer's materials.

Characteristics

- 'Mirror Finish' quality with best values in transparency and depth

- Perfect adhesion of the UV High Gloss products on melamine
- Extremely economic system with an overall cost lower than using traditional systems
- Safe and easy to cut
- Immediate manipulation of finished boards
- Flexibility; allows to be post formed

Of versatility and élan



Western Hemlock is a highly treatable, easy-to-carve, colour-stainable Canadian species

Stained to dark mahogany or carved in intricate designs, even a door or table can add special glamour that other decorative items cannot match. Luxurious sleek solid wood can make your house stand out and become the cynosure of all eyes. Seeing the demand for high quality versatile wood, Canadian Wood from British Columbia has introduced to India one of its most prized wood species – Western Hemlock,

a perfect choice for all carving, moulding and staining needs.

Western Hemlock is one of British Columbia's most abundant trees which is sourced from sustainable forests in the region. The USP of Western Hemlock is that it is a light coloured wood with no resin and you can create any finish or colour stain your wood as desired. Be it mahogany, ebony, walnut or even a natural stain, Western Hemlock is well-suited for this

purpose. You can now have a door, window, panelling or even furniture which suits your colour palette to add that extra panache to your home.

Colour staining your wood can create a very different style quotient, making it a great option for all kinds of decors and furniture. This helps break the monotony and ensures a lasting impression at one's home, office etc.





 A sensuous look to the kitchen with Western Hemlock

Another advantage is that Canadian Wood species from British Columbia are conditioned to suit the climate in India. Lumber imported from B.C. is heat treated, kiln dried

and seasoned to the correct moisture content to suit Indian manufacturers' needs. It's easy to treat with a simple borate treatment which will give you years of pleasure, so you don't have to worry about pests or termites anymore.

The other added benefit of this wood is that it is very easy to carve where you can create artistic and intricate patterns on your wood, providing a unique signature element.

You can create contemporary inspired designs where the glue and screw holding is not a problem as compared to other commonly used hardwoods. Each design on the wood will look like a majestic masterpiece crafted

where the elaborate detailed design will stand out.

Being light weight with high strength and density has numerous advantages. This is why Western Hemlock is the perfect solid wood for doors, windows, furniture, interior woodworking and mouldings.

Hemlock was named after the European weed used to poison Socrates because of its similar smell. However, Western Hemlock is not poisonous!

Forestry Innovation Consulting is the British Columbia government's market development agency for forest products in India.

www.bcfii.ca

Holytek's smart answer to the CNC machining requirements

Holytek Industrial Corp is one of the major manufacturers and exporters of woodworking machinery from Taiwan. Our commitment is to satisfy customers with the best quality machines that fulfill their requirements.

In India, we are cooperating with Woodtech Consultants through Holytek India division. It allows us to evaluate customer projects properly and in detail. Moreover, we can quickly follow up and respond to any customer requests locally.

Our current strategy in India is

towards producing compact CNC machines answering the growing Indian demand. We are offering a complete product line, Green Series, made for panel or solid wood furniture manufacturing, door production, wood carving and even light metal or plastic acrylic cutting, which require precision work while also requiring medium to heavy duty capacity.

Starting from the basics with the model NM-48, we focus on providing quality machines at a competitive price. Our series also includes NH-48-3 with its unique three head feature. The middle spindle has been specially



 NH-48-3 with three head feature

designed to rotate up to 180° for door production.

We also supply NA-48 machine with automatic tool changer for eight pieces. All axes are managed with servo motors and Syntec CNC controller. If you need specific technical parameters, we can customize our machines accordingly. Finally, our CNC machines come with key components from the best manufacturers worldwide.



 NA-48 with automatic tool changer

We believe that Holytek world-class machinery is going to add to the growth potential that you are looking for.



Fevicol continues to innovate, and lead

Fevicol, the largest selling brand of adhesives in India, has added another feather in its cap with the roll out of 'Fevicol Hi-Per'. This new adhesive with revolutionary 'Anti-Bubble Formula' drastically reduces chance of bubble formation. Fevicol Hi-Per was launched in Chandigarh in October, which will be extended to some more select markets in a phased manner. Fevicol Hi-Per - Anti Bubble Waterproof adhesive is the most premium brand in Fevicol product range.

Speaking at the launch, Mr. Anil Jayraj, CMO, Fevicol Division, Pidilite Industries Ltd. said, "Fevicol is an undisputed market leader in adhesives since 50 years. It has pioneered various path breaking innovative products with world class quality. Continuing the tradition, Fevicol Hi-Per will set new benchmarks with features like reduced setting time – the only adhesive that sets in just two hours, it also reduces the chances of bubble formation which is one of the key concerns of home owners and contractors. On top of it Fevicol Hi-Per is the best in class waterproof adhesive which is available in market today. For a consumer it means better adhesion and early completion of work and peace of mind."

Fevicol Hi-Per is available in various pack sizes from 1 Kg up to 50Kg.

On the same day, in Delhi Fevicol also rolled out 'Fevicol SH Xtra', an improved new generation variant of Fevicol SH, the flagship brand under Pidilite industries.

Speaking about the product, Mr. Jayaraj said, "Fevicol is an undisputed market leader in adhesives since 50 years. It has pioneered various path breaking innovative products with world class quality. Continuing the tradition, Fevicol SH Xtra will set new benchmarks with its features such as fast grab, fast handling strength development and reduced setting time. For a consumer it means better adhesion and early completion of work."

The product is an ideal adhesive for bonding plywood with an ease of application in furniture making. It is available in all packs with a marginal price premium over Fevicol SH.

Timely completion of furniture projects is vital whether it concerns commercial projects or home interiors/ renovation. Faster completion of projects not only helps save on labour, cost, and time, it also prevents various

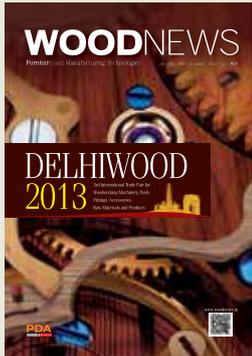
hassles associated with delay. Fevicol Hi-Per and Fevicol SH Xtra offer superior and advanced technology which makes sure that the furniture making experience becomes faster, superior, hassle free and highly productive and cost effective.

About Pidilite

Since its inception in 1959, Pidilite Industries has been the pioneer and market leader in adhesives and sealants, construction chemicals, craftsmen products, DIY (Do-It-Yourself) products and polymer emulsions in India. Most of the products are developed with strong in-house R&D. The Brand name Fevicol has become synonymous with adhesives to millions in India and is ranked amongst the most trusted brands in the country.



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Woodnews Show issue



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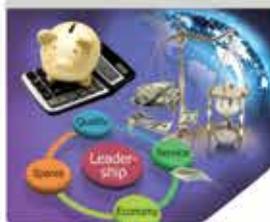


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VISIT US AT





 Weima WL-8 single-shaft shredder

A shredder designed for energy efficiency and sustainability

The all-new WL shredder series to be revealed at the Lesdrevmash 2014 trade show in Moscow

At one of the most important East European shows for machine technology, equipment and supplies for the wood industry, size reduction expert WEIMA will introduce the latest WL shredder series by presenting the WL 8 single-shaft shredder. Classic models, including but not limited to the WL 4 and WL 6 shredders.

Preparations for this Lesdrevmash trade show, which aims to be the highlight of the year within the wood industry, are in full swing. This time WEIMA will focus on the topic of resource efficiency. In times of scarce commodities, enterprises are instructed to handle energy carriers responsibly and sustainably. This not only benefits the environment but also the business.

In order to meet these requirements,

WEIMA developed the new WL single-shaft shredder series. The WL 8 is now on display in Moscow, representing the latest technologies in shredding wood. With a working width of 1000mm, a rotor diameter of 270mm and up to 30kW drive performance, wood scrap of all kinds can easily be ground. Therefore, WEIMA's innovative V-rotor is used for optimum in-feed. Material is fed into the newly-designed 'logspacer' hopper, which makes it possible to shred large parts without bridging. The ram that pushes the material against the rotor is guided by a segmented floor. The WL 8 screen can even be lowered hydraulically. This ensures easier access especially when it comes to changing the screen or other routine maintenance work.

Besides the presentation of the WL 8 shredder, WEIMA is offering the classic

WL 4 and WL 6 shredders. Thousands of these machines are used all over the world from small to medium sized businesses. Their distinguishing feature is a very rugged construction enabling an extremely long service life (even in outdoor operations). The global popularity of these shredder series assures high reliability at a competitive price.

WEIMA now has 28,000 machines in operation worldwide! It has been building shredders (single-shaft and four-shaft) and briquette presses for all types of applications for the past 28 years. It serves customers in the wood, plastics, metal, and recycling industries among others from all over the world. The company has a workforce of around 170 employees worldwide and sales locations in Europe, Asia, North and South America.



WOODNEWS

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



Yow Cherng's YC-TF7 is resourceful



The multiple milling machine YC-TF7 from Yow Cherng is used to make parallel joints for door frames and other furniture pieces. The machine is equipped with a cutter unit and two saw units to allow the machining of 45° cut and joints. It is designed to automatically and independently manufacture both cases (sides) and crosspieces (covers).

Pieces are clamped automatically at the beginning of each cycle and released once the cycle has been completed. The machine is operated through the controls provided on the control panel on the machine board. The YC-TF7 model is operated through a numerical control (CNC) system, which manages the working cycle. Yow Cherng machines are subjected to rigorous quality inspection before shipment to

ensure years of dependable operational performance. For superior tenoning and mortising operation performance, Yow Cherng machines are the best choice.

Yow Cherng Machinery Co. Ltd. is focused on design, manufacture, assembling, and testing, of the complete machinery. The company continues to innovate, research and develop.

For manufacturing the high quality, high efficiency machines, and to allow the machines to be more competitive by technological and professional integration, Yow Cherng emphasizes on 'skilled manpower, innovative technology, and respecting customers' needs; best service, most professional, and relentless operation' as its goal and a constant objective.



**YOW CHERNG
FUTURE**

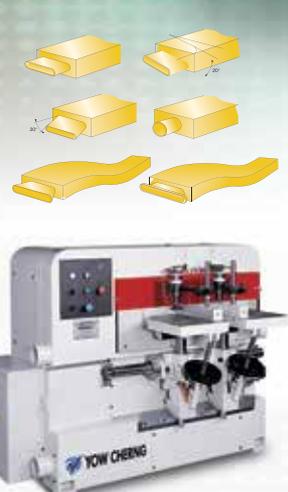
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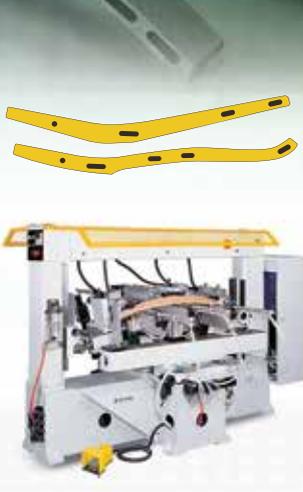
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Siempelkamp plant takes roots in Bangladesh

One of the world's most modern particleboard plants



Laying of the foundation stone at Akij (left to right): chairman Nasir Uddin along with Bashir Uddin, Managing Director, Mr. Moniruzzaman, head of particle board division, and the Uddin family.

The Akij Group of Bangladesh recently signed a contract for what will be one of the world's most modern particleboard plants. The Krefeld based machine builder, Siempelkamp, will supply all the components ranging from chipper infeed to the fully automatic sanding and cut-to-size lines including the entire materials-handling technology. All equipment will be manufactured inside the European Union.

Numerous innovations such as the Generation 8 ContiRoll press, the innovative Ecoresinator blending system for the particleboard core layer, as well as the optimized control of the pneumatic conveyors ensure reduced raw material use and maximum energy efficiency.

The order from the Akij Group once more illustrates Siempelkamp's competence as a complete solutions provider with a focus on customer needs. Siempelkamp will support the customer from Bangladesh throughout the entire project, starting with the engineering all the way to the equipment startup and ending with economic particleboard production.

Numerous subsidiaries and affiliated companies will contribute to the fact that all components feature the customary Siempelkamp quality and are perfectly coordinated to one another. Sicoplan in Belgium is responsible for the plant engineering, the equipment for the front-end of the

line is provided by Pallmann located in Zweibrücken, Germany, the finishing line components are manufactured by Siempelkamp in Krefeld, the dryer is supplied by Büttner and the screening and sifting technology is provided by CMC Texpan in Italy.

The key argument used by Siempelkamp during the negotiations was that the complete process engineering would be supplied from countries within the European Union – therefore ensuring the best possible quality.

Efficient use of resin and energy

With innovative pressure distribution plates, the heart of the plant – an 8' x 23.8 m Generation 8 ContiRoll press – will provide the best pressure distribution achieved to date.

Furthermore, the continuous press will be equipped with a light-board package for the production of extra light particleboard. Due to its special nozzle technology, the Ecoresinator for particles allows the plant operator to save up to 10% in resin. The homogenous resin distribution will also result in significantly lower energy consumption for the subsequent mixing process of the particles. Equipped with an innovative intelligent control, the pneumatic conveyors will ensure efficient use of energy.

The production of wood-based materials is one of many supporting

business legs of the Akij Group. With a total of 21 different industrial sectors, the group is the largest industrial conglomerate in the country. The South Asian customer has been operating a particleboard production plant in Manikganj, approx. 70 km west of the capital Dhaka, since 2001. Due to the fact that only one sixth of the country is wooded and illegal logging further reduces this amount, the Akij Group views particleboard production as an environmentally favorable measure to provide the country's architects and furniture manufacturers with the required raw material. Starting in 2016, the new Siempelkamp particleboard line will increase the daily production capacity in Bangladesh by another 1,000 cubic metres of particleboard.

About Siempelkamp

The Siempelkamp Group is a technology supplier operating internationally. The group consists of three business units, the machinery and plants, the foundry, and the nuclear technology business units. As a systems supplier of press lines and complete plants for the wood-based products industry, as the world's largest hand-molding foundry producing castings with a weight of up to 353 US tons, and as component supplier and service provider for nuclear facilities the company is internationally recognized.



dwp wins a CID award for Emaar's offices

Project awarded for its industrial feel, which works seamlessly with the open office approach, using a mixture of materials to define key areas



Design Worldwide Partnership (dwp) won the 'Outstanding use of American Hardwood in the Middle East' award for Emaar's new corporate offices at the Commercial Interior Design (CID) Awards 2014, which took place on September 15, 2014 in Dubai. The award was presented by Roderick Wiles, AHEC Director for Africa, Middle East, South Asia and Oceania, to George Kahler, Design Director, dwp. This is the fourth year running that the American Hardwood Export Council (AHEC), the leading international trade association for the American hardwood industry, has supported the prestigious CID Awards.

According to the judges, "this year's winner was praised for 'its industrial feel which works seamlessly with the open office approach, using a mixture

of materials to define key areas. In addition, the creative use of hardwoods throughout the design brings warmth into the space, thanks to their application not only as flooring but also in the walls, seating and rooms".

The judges also wanted to highly commend the 'Big Easy' restaurant by Broadway Interiors & Prozha as they noted its harmonious design that demonstrates thought and consideration toward exhibiting the owner's South African heritage.

Emaar, one of the world's largest property developers, wanted to reinvigorate their team and have a new vibrant workplace. In order to achieve this, they relocated their entire team to Emaar Square in downtown Dubai, which involved dwp working to provide a new dynamic workplace,

spread over three levels and 6,250 sqm – one that translated their vision for the future into an extraordinary design aesthetic, as a clear reflection of the Emaar brand.

The project, led by Mohammed Alabbar, was not an ordinary relocation project. It was to be an honest reflection of the company's vision, future and its ever-increasing role in the framework of a growing Dubai.

"Emaar's previous offices supported it through a different era for the development industry. It was emerging from the financial crash and wanted to claw back its entrepreneurial spirit, to shape up its operations, inspire the staff to perform and drive the organization forward," says George Kahler.

"Emaar's previous office space was fragmented and did not fully reflect this new Emaar drive. The new office design completely changed the dynamic and has contributed to and reinforced the chairman's vision. It's a huge success."

AHEC's involvement as the Gold Sponsor of the CID Awards is part of its extensive outreach campaign championing the use of American hardwoods and reflects its commitment to educate specifiers and to increase awareness of the potential applications offered by American hardwoods.

www.americanhardwood.org.

Hafele India launches the Nagold series of international home appliances



An exclusive range of appliances especially for Indian requirements

Hafele unveiled the Nagold series, an exclusive range of home appliances for the Indian kitchen. The attractively priced Nagold series will cater to all cooking, refrigeration and cleaning needs amidst an experience of supreme efficiency. Named after the place of its origin, the Nagold series offers the best in kitchen efficiency, convenience and excellence in quality and functionality.

Speaking at the launch Mr. Jürgen Wolf said, "If there is any one thing Indians love more than their food, it is the cooking. The cooking methods are different and their cleaning needs are different. Grinding, kneading, pounding, scrubbing – food is approached with vigour and passion. Hafele India understands that and have innovated solutions for the Indian home with the trademarked 'Häfele' excellence in quality and functionality."

The newly launched Nagold series of home appliances consists of

- **Built in hobs:** Nagold's range of built-in gas hobs that are designed for Indian cooking requirement with high power triple flame wok



burners, enhanced safety features with flame failure safety device. The complete combustion of the flames avoids the emission of harmful substances or by-product which otherwise are harmful to the environment and the health of the cook.

- **Built-in microwave and electric ovens:** Nagold's range of built-in electric and combi-microwave ovens offer a host of contemporary cooking options; precise temperature settings enhance the art of baking and roasting evenly. These machines come with additional cooling fans to avoid excess heat remitted during usage, as well as its multiple cooking functions make cooking experience recreational and fun!



- **High performance cooker hoods:** Nagold's highly efficient and stylish range of cooker hoods free kitchen from unwanted and unhealthy cooking smoke and residues; all that's left to sniff is the welcoming fragrance of appetizing delicacies.





- **Built-in barbeque & deep fryer:** Extend culinary experiments to occasional barbequing and frying for those special occasions.



- **Built in dishwashers:** Extremely hygienic and energy efficient, these dishwashers sweep dishes clean off any food residue or bacteria



there by reducing the risk of illness. With an advanced mechanism and improved technology, Nagold's dishwashers are trained to remove even the most rigid masala stains often left behind by aggressive Indian cooking.

- **Built in refrigerators:** High energy efficient model truly built to give optimum cooling performance in Indian tropical conditions. With its electronic sensors it optimizes the suitable temperatures required at each zone.

www.nagoldappliances.com

Giardina Finishing, Costa Levigatrici join hands

From 6-8 November 2014, the first joint open house will be organized by Giardina Finishing and Costa Levigatrici to mark a new milestone in the partnership created by the two companies to approach the coating market with a complete solution portfolio.

The event is taking place at the Ovema site (near Venice), where the spotlight

will be on 'GST Inerplus', an innovative technology developed in collaboration with Akzo Nobel, to offer excellent preparation of surfaces, in order to achieve UV coating cycles that can ensure top-quality final result.

Giardina and Costa will offer hands-on demonstrations – with up and running machines and lines – of the effectiveness of this technology with

roller coating systems and UV drying applications on panels with natural veneer or melamine paper.

The technical sponsor of the event is ICA Group, but the three-day show will feature several coating producers, established partners of both hosting groups.



WOODNEWS

Time to explore new business **DELHIWOOD Show Issues**

For enquires:

Contact Binesh at 9986014770
or binesh@pdatrademedia.com



FMC China 2014 has successfully concluded

800 exhibitors, 59,000 sq. metres, 35,524 trade buyers



The 20th Furniture Manufacturing & Supply China (FMC China 2014) successfully concluded on September 13, 2014 at the Shanghai World Expo Exhibition & Convention Center (SWEECC), concurrently with 'FMC Premium 2014'. This exhibition saw substantial growth in both the quantity and quality of exhibitors in the last 20 years.

The exhibits included woodworking machinery & tools, CNC machinery, and coating machinery, upholstered furniture machinery, furniture adhesives, office furniture accessories and components, furniture hardware and fittings, furniture inspection design & service, wood and surface décor, furniture fabric & upholstery components, and the interior design and 100 sofa show.

The total area of FMC China 2014 was 59,000 sq m with 800 exhibitors from over 45 countries and regions including China, Sweden, Germany, France, the USA, Australia, Turkey, Colombia, the Netherlands, Italy, Switzerland, Singapore, Mexico, Malaysia, Russia, Poland, South Africa, Japan, Canada, Korea, Brazil, Vietnam, Britain and India.

This year, a total of 35,524 trade buyers from 108 countries and regions visited FMC China. Both the number of visitors and countries represented reached a new record.

Nine groups and associations shared their new technologies and products onsite. These were: the State of North Carolina/Appalachia USA, the French Timber Industry Association, the Finnish Sawmills Association, the

American Hardware Export Council (AHEC), American Softwoods, Canada Wood, the Taiwan Woodworking Machinery Association (TWMA), the Yuhang Home Textile Pavilion, and the Asian International Furniture Material Trading Center (AIFM). Purchasing groups from Mexico, and Vietnam were also in attendance to find suppliers.

FMC China 2014 attracted 35,524 trade buyers, including 30,252 local visitors and 5,273 overseas buyers. In total, 42.3% came from Asian countries, 20.5% from Europe, 13.7% from North America, 8.6% from Hong Kong, Macao and Taiwan, 5.2% from South America, 5.7% from Oceania, and 4% from Africa.

The Top 20 best represented countries/regions for international visitors were Malaysia, India, the US, Australia, Japan, Taiwan, Hong Kong, Republic of Korea, Indonesia, Mexico, Brazil, Russia, Thailand, Canada, Singapore, Britain, Iran, Germany, Philippines and Vietnam.

Conferences and exhibitor seminars mainly focused on the upstream and downstream linkages and industry upgrading. They included the 2014 China Upholstery Industry Development Forum, China Woodworking Machinery Industry Forum, 1st China International Timber Order and Exchange Conference, 3rd Furniture Manufacturing Collaborative Innovation Conference.

www.fmcchina.com.cn

Both Turkish fairs do it again



27th Wood Processing Machinery and 17th Intermob Fairs once again surpassed their own records

Wood Processing Machinery and Intermob 2014 Fairs were held on Sept 27 - Oct 1 with the participation of 861 companies and company representatives from 30 countries. During the five days, the fairs became a trade hub for domestic and international industry professionals. The great interest of visitors to the show once more proved it to be the biggest meeting platform of the sector in Eurasia.

60,046 visitors from 102 countries

During the fairs, the professional visitors coming from 102 countries, Algeria, Azerbaijan, Bulgaria, Bosnia Herzegovina, Egypt, Germany, Greece, Iraq, Iran, Italy, Kosovo, Lebanon, Macedonia, Romania, Russia, Saudi Arabia, Serbia, Tunisia, TRNC, and Uzbekistan, being at the top 20, met the leading exhibitors of the industry. The fairs which create new market alternatives to the sector every passing year by extending

its marketing network, hosted procurement committees invited by TUYAP from 23 countries, namely Albania, Azerbaijan, Bosnia Herzegovina, Bulgaria, Croatia, Egypt, Georgia, Greece, Iran, Jordan, Kyrgyzstan, Kosovo, Lebanon, Macedonia, Moldova, Morocco, Palestine, Russia, Serbia, Syria, Tunisia, Ukraine, Uzbekistan.

By leading branding and R&D activities, the exhibitors of the fair who require to cover the demands of the customers which change constantly, indicated their satisfaction about the interest they took from the visitors and the cooperation they built during the fairs.

Invited by TUYAP procurement committees came from 47 cities, namely Adana, Adapazarı, Adıyaman, Afyonkarahisar, Aksaray, Amasya, Ankara, Antalya, Aydın, Balıkesir, Bartın, Bolu, Burdur, Bursa, Çanakkale, Çankırı, Çorum, Denizli, Düzce,

Edirne, Erzurum, Eskişehir, Gaziantep, Hatay, Isparta, İzmir, Kastamonu, Kayseri, Kırklareli, Kocaeli, Konya, Kütahya, Manisa, Mersin, Muğla, Nevşehir, Niğde, Osmaniye, Samsun, Sivas, Şanlıurfa, Tekirdağ, Tokat, Uşak, Yalova, Yozgat, Zonguldak; the professional visitors operating in the industry indicated their satisfaction about the synergy and effectiveness created during the fairs.

Local visitors from 79 cities

During the fairs, local visitors coming from 79 cities met leading companies of the industry and observed new products and latest technologies. The visitors also had the chance of sharing information through the events organized in the content of the fairs.

We hope to meet again all industry professionals on Oct 10-14, 2015 at 28th Wood Processing Machinery and 18th Intermob Fairs.

Index fairs post show report



The 4-day event saw about 25,000 trade buyers and professional specifiers from the architect, interior designer and builder communities, who came in to the show from across the nation. The already powerful visitor profile was boosted by the official partnership with the Hospitality Procurement Managers Forum (HPMF) and the Institute of Indian Interior Designers, the architect fraternity that is responsible for interior fit-outs of the sprawling project spaces of the country. Industry specific events such as 'Voice of Procurement' and 'Cooking up a Storm' for the hospitality and kitchen industries, by 'Index Events', were a value addition to the visitors and exhibitors present.

Over 300 booths were spread across seven air-conditioned hangars (300,000 sq feet), which were fitted out in resonance with the design-led event. The 26-year-old fair covers the gamut of interiors products with focused spaces for furniture, decorative lighting and artifacts; kitchen; office & contract; intermediates, wall and floor products

and architectural hardware.

Focused initiatives to bring in the best possible visitor profile to the powerful event saw exhibitors expressing their appreciation of the B2B matchmaking exercise that brought in over 2,700 trade and business visitors from across the country. Strategic partnerships with India's leading airlines and hotels brought the fair up to a new level of professionalism and success.

"An awesome experience!" "It's great to see the range of products we have to play with, as interior architects and designers!" "This is India's salone!" These are some of the comments of visitors to the recently concluded Index Fairs, Mumbai, India.



The design-led Index Fairs saw key spaces with a design focus, the Index Design Boulevard, with lighting design installations, 'A Little Light Magic', the 'Kudos Gallery' on great contributions to hospitality design and the 'Art Enclave' and 'Sculpture Zone' which were new at Index this year.

Despite the chaotic nature of the Indian markets, the sheer volumes of business are awe-inspiring and a magnet to export-driven suppliers across the world.

Index Fairs is well known as the best entry point into the Indian markets and has helped launch leading brands from over 20 nations including Italy, Germany, Poland, Spain, France, Malaysia, Singapore and China, into the attractive Indian markets.

India imported approx. 70 billion INR (USD 1.2 billion) worth of furniture, bedding, mattress & stuffed furnishings, and decorative lamps & lighting fittings in fiscal 2013-14, with a YoY growth in INR of 14.87 % (DGFT figures). The lack of a strong domestic base of manufacture underscores the potential for imported goods despite the 29% customs tariffs.

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➤ 125+ Exhibitors ➤ 5-7 December
 Pragati Maidan, New Delhi

Zak Doors & Windows Expo is India's first and the largest expo on Doors, Windows & Façades. This yearly exhibition spectacle is an epitome of new innovations and this year promises to be even better. New products on display include Japanese styled windows, ceramic cladding, aluminium clad wood windows, high pressure exterior laminates, seamless railings, wood clad aluminium windows, etc apart from the regular display of doors, windows & façade systems, hardware, profiles, coatings and allied accessories.



Concurrent Shows



Media Partner



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www.zakdoorsandwindows.com

Aseanwood Woodtech 2014 concludes well



Malaysian furniture has a strong reputation for dependable quality and better services, we strongly believe that maintaining product quality control stabilises the sales. We also believe that to further heighten the industry standard we need to improve on the services provided, as well as commence extensive research on new technologies and remain a step ahead of the trend.

Aseanwood Woodtech 2014 featured 156 participating companies from 19 countries, viz., China, Indonesia, Switzerland, Denmark, Italy, Taiwan, Finland, Japan, Thailand, France, Portugal, Turkey, Germany, Malaysia, USA, Hong Kong, Singapore, India, and Spain. It created a bridge for these countries' latest technologies from a wide range of categories.

A total of 5,762 quality buyers from

34 countries comprising of architects, developers, engineers, planners & craftsmen, hardware traders, contractors, builders, building owners, interior designers, and facilities & renovation specialists congregated at Aseanwood Woodtech.

The show was co-organised by Malaysian Woodworking Machinery Association (MWMA) and Trade-Link Management Services SDN BHD.

Show dates: 8 - 11 October 2014

Venue: Putra World Trade Centre (PWTC), Kuala Lumpur, Malaysia

Exhibition space: 10,000 sq metres (gross)

Exhibitor profile

- Woodworking machinery & accessories
- Sawmilling & forestry machinery &

equipment

- Woodworking
- Saws & blades
- Furniture hardware & fittings
- Furniture parts & components
- Furniture fabric & leather
- Coatings
- Adhesives & Chemicals
- Furniture raw materials
- Panel & surface decoration
- Semi-finished parts for furniture production

Visitor analysis

Walk-in trade visitors: 4,472

Pre-registered visitors: 328

VIP: 937

Press/Media: 25

Overall visitors: 5,762

Time to explore new business



Show Issues

**CONTINUE TO
STAY CONNECTED**

WOODNEWS, published by the organisers of DELHIWOOD, will be dedicating three issues to support its exhibitors to reach potential buyers. These special issues are scheduled and designed to get maximum reach, before, during and after the show.

PREVIEW ISSUE

SHOW ISSUE

REVIEW ISSUE

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Exhibitor
Directory



Floor Plan
& Exhibitor List



Show Dailies

Contact: Mr. Zindal
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zindal@pdatrademedia.com

Maintenance of J -1325 CNC router



Machine cleaning and checking

Before carrying out maintenance operations, adjustments, or dismantling any machine part, turn the main switch OFF, lock it, then indicate this with a sign.

All cleaning operations are to be carried out by the machine operator or by a skilled technician.

The general cleaning ensures long life of the machine and is an important safety factor.

By using power dust aspirator to clean the machine

- Eliminate dust and chips from the main table, control panel and all cavities
- Clean the gantry, all moving slides in fully entry side, then in other position in fully exit side, its bottom guides and its guide ways.
- Clean (weekly) all moving parts, in particular the elements exposed to the dust and to the resin by using a brush or cloth with safe solvent.
- Clean the rails of X & Y axes, and also Z axis ball screw. Apply oil on it for

lubrication, buy an oil pump. (Use VG-32 or VG-46 oil for lubrication).

Inspection of safety devices

For safe usage of the machine, the safety devices should be efficient. Check the controls for emergency stops every 2nd week with this test

- With the machine under normal operating condition, press the emergency button, the spindle blade shall stop.
- NOTE: if the belts get slack, the braking time may increase. Therefore, make sure that the belts are stretched in good condition.
- Periodically check that the guards are efficient.
- If the machine has troubles stop processing and contact the local agent a.s.a.p.

Trouble shooting

- Soft failure is caused by wrong work in the adjustment, parameter setup or unsuitable operation (mainly occurs in the initial using period, because of unfamiliarity)

- Hard failure is caused by hardware expiration of the numerically-controlled machine tool, (control, key) you can observe system's change from pressing the reset key...

If the problem vanishes it's a random fault, or caused by wrong operation. If it doesn't vanish, display the possible reasons that can cause the breakdown, then do the generalized analysis, judgment. Sometimes we do some examinations or experiments to diagnose the faults. If the breakdown cannot vanish after replacement, we can carry on the investigation from the aspects below

Inspect the equipment's running status

- Equipment moved in the time of breakdown.
- Content shown by CRT (alarm and warning signal)
- Warning appearing in the drive and inverter.
- The axis' positional error when it breaks down.
- Whether the tool path is normal



running status of the auxiliary function

Inspect the equipment's running status

- Whether it is the new processing program
- Whether the breakdown has any relation with the feeding speed
- Operator's situation (unfamiliar with the machine)

Check the system's input voltage

- Whether the input voltage fluctuates and the voltage values are in normal range.
- Whether using any large current device nearby.

Inspecting the environmental condition

- Temperature condition around the CNC.
- The working condition of cabinet's heat interchanger and axial-flow fan.
- The vibration situation around the system.
- Source of high frequency disturbance nearby.

Inspecting the machine's condition

- Whether the safety wire is burnt out.
- Whether the machine was repaired or the parameter was set before the breakdown.
- Whether the working way has been changed in the operational process.
- Whether the engine bed is being at scam or lock situation.
- Whether the speed percentage switch is on zero.
- Whether the various signal cable of the machine is broken.
- Whether the earth wire is incorrectly shielded

One or all three axes do not move or move abnormally

- Control-card becomes flexible or breaks down
- Corresponding drive breaks down
- Corresponding stepper motor breaks down
- Corresponding coupling or belt part becomes flexible
- Corresponding screw mandrel part or the screw nut breaks down
- Corresponding axis' slider breaks down
- The drive and current is not the same with what is set in the software

Z-axis is out of control

- Control-card becomes flexible or breaks down
- Static
- The motor line of Z-axis breaks down
- File path is wrong
- Inverter interference
- There are problems or viruses in the computer system
- Operational errors

Errors

- Control-card becomes flexible or breaks down
- Drive breaks down
- Stepper motor breaks down
- Static
- Motor line breaks down
- Data wire breaks down
- Path is wrong
- Coupling or belt part becomes flexible
- Working speed is too high
- There are problems or viruses in the computer system

Varying depth of carving

- Control-card becomes flexible or breaks down

- Stepper motor breaks down
- The drive and current is not the same with what is set in the software
- The motor line of Z-axis breaks down
- Spindle motor breaks down
- Inverter interference or data setting error
- Static
- There are problems or virus in the computer system

Reckless carving

- Control-card breaks down
- Inverter interference
- File path's wrong
- Static
- Something wrong with the setting of the software
- The drive and current is not the same with what is set in the software
- Data wire breaks down
- There are problems or viruses in the computer system

Washing table not smooth

- The spindle is not vertical with the working table, needs correction
- Something wrong with the tool
- Something wrong with the control-card

The machine cannot come back ordinarily to the mechanical origin

- Opposite in direction
- Control-card becomes flexible or breaks down
- Machine cannot turn back to the mechanical origin
- Limit switch or data wire breaks down
- Drive breaks down
- Stepper motor breaks down



WHAT DO YOU THINK?

WOODNEWS



George Fernandez, Director:

Systems Engineering Consultants, Annanagar, Chennai (Tamil Nadu)

With reference to 'Advanced office furniture' from Hettich (WoodNews Sept-Oct, 2014), every organization needs to look at ergonomics and comfort at work to ensure high employee motivation and efficiency, the key to best human resource. The Systema Top 2000 uses storage space with organizers for drawers to suit specific needs. With double wall steel drawer system and concealed runners it provides basis for limitless design flexibility.

The Hettich Lega Drive is just the right table for many offices, to adjust height with an electrical adjustment system at the press of a button, with all working parts concealed. Infinite variability with swift and easy movement allows users for ideal working position.



Ramesh P. Joshi, Manager

(Business Development):

Ambika Timber Works (Bankura) and Premier Wood Crafts (Ganganagar) West Bengal:

WoodNews is a beautiful magazine which has stood the test of time. It is made for timber, ply, particle board, MDF, joining and related machinery. It offers much more than most other periodicals of its type. Besides, the Event Calendar about exhibitions is helpful for participators. The printing and page layouts are just excellent!

Sanjay Sharma, Proprietor:

Goldy Enterprises, Ratahra, Rewa (Madhya Pradesh)

Dear WoodNews team, please provide articles on making of modular kitchen, tables and almirahs, made of pre-lam particle board for budget class kitchen, office and (educational) tables, computer tables, etc. for small time manufacturers.

EVENTS CALENDAR

Furnipro Asia

Date: 5 - 8 November, 2014

Venue: Marina Bay Sands Expo and Convention Centre, Singapore

The definitive international trade exhibition for the woodworking, furniture and panel production industries in ASEAN is once again looking forward to returning to Singapore from 5 - 8 November 2014. This year, the 4-day event will be taking place at the Marina Bay Sands Expo and Convention Centre. The one-stop regional event will present the latest innovations and technologies for the furniture manufacturing sector

Details: <http://www.furniproasia.com/>

ACETECH - Mumbai

Date: 6 - 9 November, 2014

Venue: : Bombay Exhibition Centre, Mumbai, India

The Economic Times' ACETECH is the leading Architecture, Construction, Building Materials, Engineering, Innovation, Interiors and Design trade event in Asia and the third of its kind in the world. The show avails its participants and visitors an opportunity to exhibit, exchange, invest and progress at a pace newly accomplished. Exhibitors from across the world are seen celebrating the chance to showcase their potential by providing detailed demonstrations of latest products and services, within industry segmented pavilions. The exhibition features the presence of a plethora of knowledgeable and influential stalwarts from the aforesaid sectors.

Details: <http://www.etacetech.com/>

Myanmar Wood - 2014

Date: 4 - 7 Dec, 2014

Venue: Myanmar Convention Centre, Yangon, Myanmar

Myanmar's leading event for woodworking machinery, furniture production and interior design. Republic of the Union of Myanmar (called Myanmar), is a member of Association of South-East Asian Nations (ASEAN). It's a major producer of wood and timber and a major market to the machinery industry. Along with the improving diplomatic relations with America, more and more enterprises are intent to invest in Myanmar.

Details: <http://www.myanmar-expo.com>

ZAK Doors & Windows - New Delhi

Date: 5 - 7 December 2014

Venue: Pragati Maidan, New Delhi, India

Zak Doors & Windows Expo is India's dedicated platform to showcase the products of Doors, Windows, Facades, Technologies, and Components & Products. The expo has emerged as the most effective marketing medium for manufacturers penetrating Indian fenestration industry. With over ten successful editions, the expo has grown exponentially with the growth of the Indian fenestration industry.

Details: <http://www.zakdoorsandwindows.com/>



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We at PDA Trade Fairs and Eumabois take pride in continuously enhancing exhibitor & visitor experience at our trade shows, and acting as catalysts in the growth of the woodworking industry in India.

Riding on the success of previous exhibitions, the 4th edition of DELHIWOOD will take off at the India Expo Centre & Mart, Greater Noida, from February 4- 7, 2015.

The international trade fair for Furniture Production Technology, Woodworking Machinery, Tools, Fittings, Accessories, Raw Materials & Products is expected to

attract around 450 exhibitors from more than 20 countries, and approximately 15,000 visitors from all over India and neighboring countries.

The Indian furniture market is estimated to grow at a compound annual growth rate of 25% through fiscal 2015-19, along with the (organized and unorganized) woodworking industry. The rising proportion of working age population, increasing per capita income, rise of the consumer class, rapid urbanization and growth of the real estate sector are some of the contributors to the

woodworking sector's growth.

This positive trend and market sentiment will reflect in participation at DELHIWOOD 2015, where exhibitors will showcase not only Woodworking Machinery, Furniture Accessories & Fittings, but also Systems & Tools for Woodworking.

DELHIWOOD 2015 is sure to be of great value for Furniture Manufacturers and other Woodworking Professionals to compare, benchmark & source machinery and materials.

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