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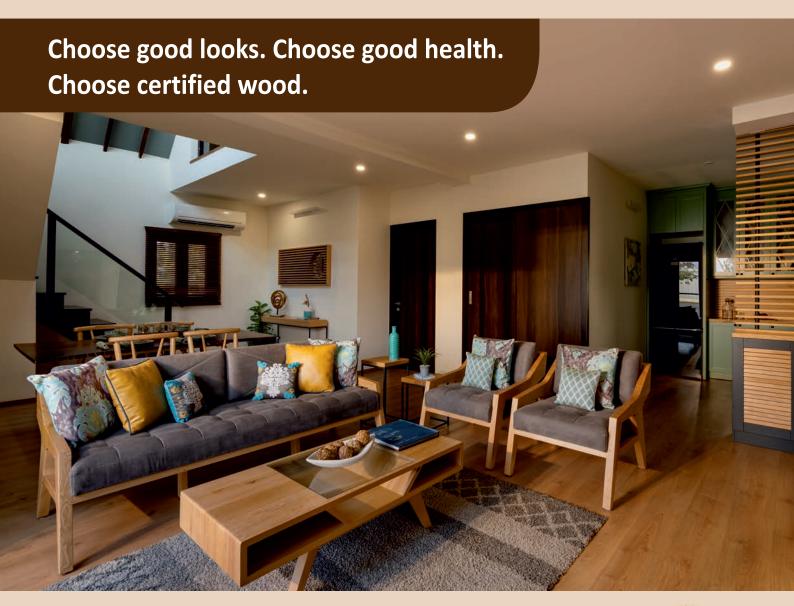












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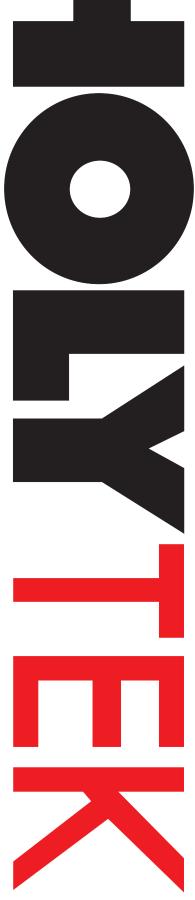
























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WOODNEWS

Chief Editor | Dhananjay Sardeshpande dhananjay@pdatrademedia.com

Chief Copy Editor | Roy Thomas royldpdatrademedia.com

Copy Editor | Khushi Rawat kushildpdatrademedia.com

Founding Publisher | Gouri Ramakrishnan

Founding Editor | Dr. Joseph George

President | Tony Doulton tony@pdatrademedia.com

Assistant Manager - Media | Vinay M C vinay@pdatrademedia.com

Senior Executive - Circulation/Admin | Chandrababu M chandru@pdatrademedia.com

> General Manager - Design | Infant Vikas vikas@pdatrademedia.com

Manager - Design | Ramesha K S rameshaldpdatradefairs.com

Graphic Designer | Arshad Malik arshad@pdaventures.com

Taiwan, China and Hong Kong:

Robert Yu, Worldwide Services Co., Ltd., 11F-B, No. 540, Wen Hsin Road, Sect. 1, Taichung, 408, Taiwan. Tel.: +886-4-2325-1784 Fax.: +886-4-2325-2967 Email: erin@acw.com.tw

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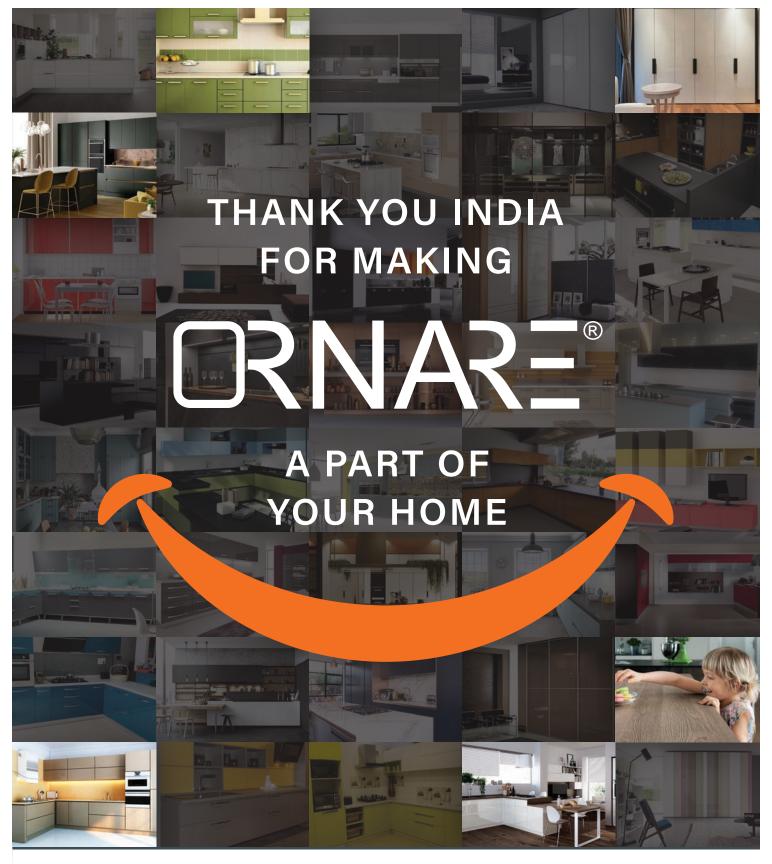
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10



India's Largest Range of Decorative Panels













Of sunrise, infrastructure, opportunities and growth

Dear Reader.

The 7th edition of DelhiWood was a huge success, attracting more than 27,000 visitors and 450-odd exhibitors from around the world, according to its organiser, India. NürnbergMesse the WoodNews team took opportunity to catch up with some exhibitors and visitors (furniture manufacturers) during the 4-day trade and technology fair, to exchange pleasantries, ideas and news. It was here that we sensed a spring in the business sentiment among industry veterans. As one of them, Satyan Thukral of Caple Industrial Solutions, says: "For the next few years, woodworking workshops and factories and the machine tool industry will be a sunrise sector in India."

With several large infrastructural projects underway in the country (land and air connectivity,

designated 'furniture clusters' among them) and expectations of government initiatives in manufacturing and trade (such as the push to ease of doing business and the production-linked incentive scheme) there will come a time when the furniture industry will find itself ready to fulfil the rising domestic demand – and even eyeing the export markets. Somewhat similar sentiments were shared with *WoodNews* by the new Managing Director of Hettich India, Andre Eckholt. Read his interview inside.

The VDMA (woodworking machinery association of Germany) also remarked – in its global outlook ahead of Ligna 2023 (Hannover, Germany: May 15-19) – that India is emerging as a "serious customer" for woodworking machinery and tools from European technology suppliers. "A striking and pleasing development was a near quadrupling of exports to India to 46 million Euros. Indian wood processing is finally establishing itself as a serious customer for European manufacturers,"

said Markus Hüllmann, Chairman of VDMA. Read more about it and about the upcoming Ligna and Interzum (Cologne, Germany: May 9-12) trade fairs inside.

I came across this rather interesting bit of "news" from British Columbia, Canada. The province recently further extended its embargo on logging in old-growth forests. The reason? To re-establish a sustained breeding population of endangered Spotted Owls across more than 32,000 hectares of their native habitat! The embargo on commercial logging of old-growth forests in the province – which has attracted controversy for other reasons - has been done to preserve the province's ecosystem, its bio-diversity, clean water resources, and adding to carbon storage.

Makes me wonder: would this have been possible in India? Write to me to speak your mind on this, and any other woodworking-related topic. Until next, best wishes!

STAYING IN TOUCH

For Editorial content: dhananjay@pdatrademedia.com, or editor@woodnews.in, or call +91-80-42505036.

For Advertising options: manas@pdatrademedia.com vinay@pdatrademedia.com (+91-80-42505059).

For Circulation and Subscriptions: chandru@pdatrademedia.com (+91-80-42505054).

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We look forward to hearing from you soon!



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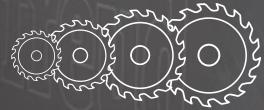


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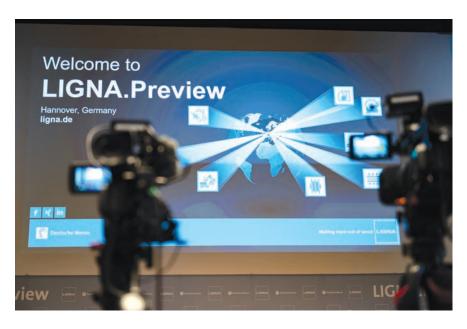




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To Ligna! Woodworking community meets in Hannover



With more than 1,05,000 square metres of exhibition space and more than 1,100 exhibitors, Ligna 2023 (May 15-19, celebrates its return to presence with a comprehensive overview of the woodworking and wood processing industry.

Despite the tense global political situation, the positive booking status confirms Ligna's status as the world's leading trade show.

Global players and renowned

companies from all over the world come together to showcase tools, machinery and equipment as well as smart solutions and new technologies.

In addition to companies from Germany, firms from Italy, Austria, Turkey, Spain, China, Sweden, Slovenia, Denmark and the Netherlands account for the largest proportion of exhibitors by area.

In the process, the world's leading trade show has even been able to expand its exhibitor portfolio: this year, more than 180 first-time exhibitors are taking advantage of the opportunities for business initiation and networking.

"Ligna offers a unique overview of the entire value chain of the woodworking and wood processing industry. The global woodworking community is looking forward to the face-to-face experience in Hannover, " said Dr. Jochen Köckler, CEO of Deutsche Messe AG, highlighting the importance of the event at the Ligna Preview on February 16, 2023.

Focus topics

Ligna 2023 will also live up to its role as a trendsetter in its choice of focus topics. The topic of digitisation is shaping the development of the industry and is a prerequisite for production that is as resource-efficient as it is flexible.

"Woodworking Under the title Transformation," it is also receiving a great deal of attention at Ligna. Exhibitors will show how far the networking of machines, tools, components materials has already gone and will present innovations in the fields of robotics, automation and software.

wood-based bio-economy considered an innovative technology driver. The framework conditions for expanding resource-efficient wood use are part of the European Green Deal and pillars of a circular bio-economy.

The buzzwords Smart or Connected Factory, Industry 4.0 or Internet of Things and IoT platforms will continue to become tangible at Ligna with concrete examples.

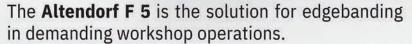
Wood is also steadily gaining importance as a recyclable building material in the construction industry. The share of total construction volume accounted for by purely timber buildings and timbermixed structures is growing continuously globally.

Ligna reflects this industry trend in the focus topic "Prefab Building Processes". At Ligna preview, Bernd Oswald (Gropyus) and Prof. Achim Menges (University of Stuttgart) spoke on this topic.

The construction industry needs a technology boost to produce in a contemporary and efficient manner, in prefabrication as well as on the construction site. At Ligna, interested

16

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Keynote speakers at Ligna Preview (L-R) Mr Bernd Oswald of Gropyus Group; Mr Markus Hüllmann, Chairman of VDMA Woodworking Group; Ms Stefanie Wagner; Prof. Achim Menges from the University of Stuttgart; and Dr. Jochen Köckler, CEO of Deutsche Messe, organiser of Ligna.

parties can discover suitable solutions and approaches that will determine the future of timber construction.

Tours, matchmaking

The Ligna. Stage presents the live audience in Hall 12 with a varied forum program of solution- and user-oriented presentations and panel discussions along the focus topics. For those who cannot be on site, the various programme items will also be available as a stream live and on demand on the Ligna website.

Visitors can look forward to guided tours again in groups of up to 25 participants for exclusive presentations and live demonstrations. Hybrid guided tours are also available live and on-demand in streaming in

English and German on the Ligna website.

Because of the shortage of skilled workers and concerns about young talent, Ligna also provides an overview of research, education and career opportunities in the woodworking and wood processing industry.

The Ligna.Campus provides information on education and training courses offered by universities, technical colleges and technical schools. Teaching also presents current research projects.

At Ligna.Recruiting, potential employers meet interested skilled personnel. A digital job wall allows companies, whether exhibitors or visitors, to post attractive job offers. This offer is supplemented by on-site opportunities for personal matchmaking between human resources and interested parties and by company pitches.

Optimistic outlook

The VDMA (Woodworking Machinery Association of Germany) sees more opportunities than risks for the industry. "After an extremely high order intake in the past 2 years, there were considerable difficulties on the production side. But now business is visibly returning to normal and many exhibitors are working off a high backlog of orders, some of which extend into the year 2024," said Markus Hüllmann, Chairman of VDMA (Woodworking Machinery).

According to preliminary calculations, turnover reached a record level of around 3.5 billion Euros. Despite the late effects of the Covid-19 pandemic, the enormous problems in the supply chains, and the war in Europe, the industry is well utilised and looks ahead with confidence, he added.

In the year 2022, the export value of German manufacturers of woodworking machinery increased by 5% to 2.4 billion Euros, compared to the previous year. The largest individual markets were again the US, China, France Poland and Austria.



In 2022, there was a near quadrupling of exports to India to 46 million Euros. Indian wood processing is finally establishing itself as a serious customer for European manufacturers of woodworking machines and tools.

– Markus Hüllmann, Chairman of VDMA (Woodworking Machinery).



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A striking and pleasing development was a near quadrupling of exports to India to 46 million Euros. Indian wood processing is finally establishing itself as a serious customer for European manufacturers of woodworking machines and tools.

Exhibitor highlights

Numerous companies represented at Ligna 2023 are contributing to the "woodworking transformation" with their developments, from the hidden champions of the mechanical engineering sector to global players.

From Austria, for example, the Felder Group, one of the leading suppliers woodworking machinery, will be there with fully automated robotics solutions. As one of the many German companies, Dieffenbacher Holding GmbH will be showing how energy recovery solutions and measures improve to operational excellence promote the sustainability of wood-based panel plants are transforming conventional production facilities into smart plants.

IMA Schelling exhibits will include an edging machine with automatic edge handling, a through-feed drilling machine for Batch Size-1 production, an automated panel-sizing saw with robotic handling for high productivity, and its end-to-end "aimi" software.

More than 250 exhibitors are coming to Hannover from Italy, such as Biesse Group, SCM Group and Cefla Finishing. While Cefla Finishing is using advanced technology to optimise processes such as painting and surface coating, SCM is helping woodworking companies transform by integrating digital tools such as computer-aided manufacturing and a wide range of CNC machines.

Biesse is presenting high-tech solutions, integrated systems and plants that are specifically tailored to the needs of manufacturing companies looking to significantly improve and enhance their production performance.

The Homag Group is also developing digital solutions for product configuration and data creation, through to material flow control and shipping and assembly planning.

Most importantly, the transformation must also be understood as a cultural change in which spaces for creative processes continue to open up for people, and this will also be a topic at Ligna 2023.

Ligna 2023 Focus

- Tools & Machinery for Custom & Mass Production (Halls 11-15 & 27)
- Surface Technology (Halls 16 & 17)
- Wood Based Panel Production (Hall 26)
- Sawmill Technology (Hall 25)
- Energy from Wood (Halls 25 & 26)
- Machine Components and Automation Technology (Hall 16)
- Machinery for Forestry, Sawn Timber Production

(open-air site, P32-35)



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Interzum 2023: 'Shaping the Change'



Following the digital Interzum @ home 2021, the world's leading, international industry event will once again take place as a live experience in the Cologne exhibition halls of Koelnmesse GmbH.

From May 9 to 12, 2023, Interzum will once again present itself to the international trade audience as an active shaper of change with fresh momentum and its claim "Shaping the Change".

Decision-makers, opinion leaders, specifiers and trendsetters from all over the world will find out about innovations and new products on-site, gather inspiration, strengthen existing business relationships and make new customer contacts.

More than 1,500 exhibitors from around 60 countries are expected.

This means that Interzum will once again be at the high level that distinguished the trade fair even before the pandemic.

In addition to the market-leading companies, many small think tanks will again be represented. The international exhibitors will present an exciting mix of new technologies, materials and surfaces in an extraordinary range at the fair.

As innovation drivers and suppliers to the entire furnishing industry, they thus underscore their importance as key partners in the development of new products and design trends.

It is precisely this diversity that makes not only the latest materials and manufacturing processes visible at the fair but also trends and visions for the design of future living spaces. Thus, resource conservation, sustainability, upcycling as well as the growing area of living will be topics that will play a role.

Sustainable production

With the global keynote theme "Neo-ecology", the trade show will focus in particular on the issues surrounding climate protection and future-oriented planning, because they are crucial for successful innovations in the long term.

With sustainable products and production processes, many companies in the supplier industry are already assuming social responsibility today. That is why Interzum is putting an even stronger focus on these topics, in order to drive forward the joint dialogue that produces new solutions.

Thematically, Interzum is once again divided into the three established product areas: Function and Components, Materials and Nature, and Textile and Machinery.

This structure brings the players in the value-added chains closely together and creates a good overview for exhibitors and visitors. At the same time, a new hall layout will ensure greater efficiency. The goal is an even better visitor experience.

"We are using the newly built Hall 1 for the first time for the Materials and Nature area. Many great companies will be presenting themselves here, including some that were previously represented in Hall 6," says Maik Fischer, Interzum Director.

The digital pre-show phase will kick off Interzum 2023 from 2-8 May 2023. It is

intended to generate interest, visibility and orientation for the physical trade fair by bringing products, innovations and services into the focus of participants even before the start of interzum

Interzum's claim "Shaping the Change" and the global guiding theme "Neo-ecology" will also be taken up in the diverse event programmes at Interzum 2023. Themed special shows – the Interzum Trend Forums – will show how creatively and flexibly the supplier industry is responding to the challenges of our time.

In the context of central trends, current topics in the furniture and interior design industry will be presented to an international trade audience.

Senosan to present new PET films

Plastics specialist Senosan Klepsch GmbH will be presenting several new products at Interzum 2023. A novelty in the programme is PET films, which will be produced with a new production line from mid-2023.

The company has invested around 10 million Euros in this at its headquarters in Piesendorf, Austria.

Senosan will show the anti-fingerprint surface, Senosan AM1800 TopMatt AF, now also in the trendy Titanium metallic colour with 3D effect. With the new colours bronze metallic and Titanium gray metallic, Senosan is expanding its glass product line.

In addition to the already available senosan Eco furniture films made from recycled plastics, an rPET Eco variant and bio-plastics are to be added to the environmentally friendly product range.

"We have already obtained the necessary ISCC certification for this. This is a big step towards the goal of climate-neutral production at the Piesendorf site," says Günter Klepsch, CEO of Senoplast Klepsch GmbH.



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WOODNEWS

Wood Taiwan 2023 is on a roll



Taiwan's best, and one of the leading woodworking machinery trade shows in Asia, Wood Taiwan kicks off at the Nangang Exhibition Centre in Taipei from 20 to 23 April 2023.

Its digital (online) version will be on until 4th May (online. woodtaiwan.com.tw).

It has been organised by the Taiwan External Trade Development Council (TAITRA) and Taiwan Woodworking Machinery Association (TWMA).

The highlights of the exhibition are machines and equipment for primary processing (sawmilling, veneer and plywood) and secondary processing

(sawing, planing, moulding, turning, edge banding, finger jointing, boring, tenoning, mortising and sanding) of wood.

Apart from machines and technical equipment for surface treatment, there will be exhibitors promoting tooling, packaging, upholstery machinery, CAD/CAM technology, coatings, paints, adhesives and timber construction.

Engraving machinery, fittings, hardware and components, forest technology, safety control, wood crafts and furniture will also feature prominently in the exhibition's programme.

There are more than 160 exhibitors, who supply machinery, tools, production consumables and ready-made furniture mainly to Japan, China, the US, Malaysia, Vietnam, Indonesia, the Philippines, Singapore, India and Thailand.

For more information, write to woodtaiwan@taitra.org.tw.



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Yow Cherng: re-starting strong in 2023

In the Indian market, which has steadily been evolving from handcrafted furniture workshops to industrialised factories using semi-automated machinery is picking on the trend.

Based on Yow Cherng's observation in the past 19 years, the current demand for their entry-level mortising

tenoning machinery, YRT-115 and YOM-120, is slowly taking over the manpower, due to the gap in experienced craftsmen and the huge demand for furniture.

To assist local manufacturing and offer machinery with stable and high performance, the YRT-115 produces different tenons with simple settings, which goes along with the YOM-120 series for various mortise shapes.

To support all customers with full aftersale services in India, reach out to Yow Cherng's long-term partner, Woodtech Consultants.

At Wood Taiwan, Yow Cherng Machinery Co. is displaying the newly developed T43 cabinet door tenon series machine. The double-end forming is performed simultaneously with edge trimming and cutting.

The machine is equipped with a stacked feeding-in loader with an automatic work piece feed and return device. Check it out in Booth No. K0828.

(http://www.yowcherng.com.tw/e_ company.htm)

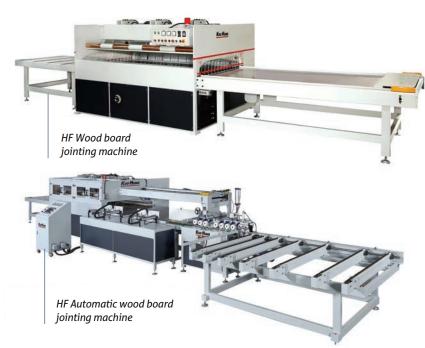








Kuohung gets machinery automated



In India, as far as high-frequency woodworking machinery is concerned, most users choose standard highfrequency equipment at present. There is a big difference between the standard type and the automated type of highfrequency wood board jointing machine, according to Kuohung Machinery Co.

advantage of automated type machines is accelerate that they production efficiency, increase capacity, manpower and production costs. In terms of gluing, automated gluing is also more economical than manual operations.

No technology is available that can replace high frequency and produce faster efficiency. On the contrary, high frequency can be regarded as replacing the cold press and hot press machines with the same function.

(https://en.kuohung.com.tw/Home)

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(Anti Finger Supermatt



WenChih tooling for machining centres

With the labour force gradually decreasing, the furniture industry needs to minimise human production and turn to the automated machinery and equipment that has enabled the stable sales growth of CNC machining centres.

Wen Chih Machinery Industrial Co's main product, the CNC multispindle drilling head, has always been the best tool for CNC machining centres. Whether it is the standard or customised spacing series, Wen Chi can help you simplify the production process further to set up more automated processing.

Through the CNC machining centre, multiple CNC multi-spindle drilling heads can be placed in the tool magazine and a computer can be used to call the corresponding CNC multi-spindle drilling head to process wood.

In addition to reducing the time for manual loading and unloading, this eliminates the need to manually flip and move the wooden board, which makes the operator safer and greatly reduces manpower requirements.

The CNC multi-spindle drilling head can complete more than five holes at a time. It can not only greatly shorten the processing time, but also achieve the new generation advantages of energy saving, carbon reduction, and power saving, and wood processing can be completed in one procedure.

At Wood Taiwan, Wen Chih is also displaying its CNC angle heads, which are used with drill bit, router bit, end mill and saw blades. Their easy operation and huge angle change enable up to 5-axes processing achieved at low cost.

The high strength and lightweight aluminium alloy body design can be customised with a tool holder interface. Check out Wen Chih's range at Booth No.

(https://www.wenchih.com/en/company.





Automatic double-end tenoner from

E-Chain

E-Chain Machinery Co's fully automatic double-end tenoner (NC type) is the complete solution to significantly reduce operator calibration time when switching from one job to the next.

It features NC positioning of top pressure hold-downs and the movable side of the machine for automatic working width and working thickness settings. The NC servo enables the positioning of all working units (horizontal and vertical axes) and in-feed



reference fence (horizontal axis).

Its 63F tool interface is direct-driven by hi-frequency motors and is used for quick lock/ release tooling changeover on moulding systems. The automatic dogs eliminate dog set-up as the detection of an incoming work piece automatically pops up the next set of available dogs for operator use.

It is fully compatible for use with a diverse array of working units covering cutting, profile moulding, chamfering, sanding and drilling applications. See the machine at Booth No. J0409.

(https://www.echainmachinery.com/)

Multi-purpose locks from Sinox



Sinox Co. is a leading Lock Manufacturer in Taiwan providing a variety of security locking solutions for OEM and ODM projects. The cabinet lock series is suitable for drawers, dressers, file cabinets, or cabinets with doors, and could be used in different environments and scenarios: in schools, health clubs, offices, or homes.

These locks have a 4-digit resettable combination; can be accessed with an emergency opening; have fixed code for a single user or auto-reset for multiple users; and use a decode function and combination reset. It also features anti-theft capability with a free-

For more information, write to info@ sinoxlock.com.



WOODNEWS

Efficient sanding from Goodtek Machinery



In the field of woodworking, for wider double-side processing, Goodtek Machinery Co provides an alternative to sanding machines – the 1,320-mm GTM-1320W double surface planer.

It is designed to feed material with a flexible top bolt at the front section, and multi-axes power transmission at the rear section to ensure smooth feeding. The cutting noise of the spiral knife is low, the durability is good, and wood tear marks are avoided.

The GTM-1320W can satisfy double surfacing processing at one time with fast feeding (up to 24 metres per minute). For the clamped board width within 1.3 metres, light sanding after double-side planing can achieve one side sanding, and one side surfacing effect.

The GTM-1320W contains several special parts that traditional double-side planers lack and is backed by decades of professional planer-production experience in the design and manufacture of reliable products. Check it out in Booth No. J0518.

(https://www.goodtek.com.tw/index. html)

Helical planer head from Tong Fong

In Booth No. K1016, Tong Fong Cutters Co. is displaying its helical planer cutter head with changeable knives. It is suitable for four-sides moulder, copy shapers and spindle shapers in solid wood, plywood, acrylic and MDF.



Its light alloy body (aluminium) can be made to specification as per customer's order. (https://www.tongfong.com.tw/)

Twin-head resaw from High Point



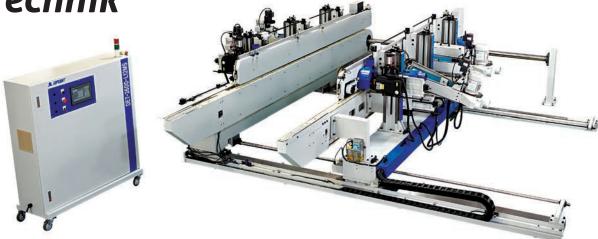
High Point Technology Inc, which has a proven twin-head resaw series, is now adding the HP-66PRO+. It has more power and is faster than ever, with a feed speed of 45 metres per minute.

From frame to guides, the HP-66PRO+ is built to last with its robust feeding system. The feeding chains and conveyors on the top and bottom, secure precious wood from infeed to out-feed, with accuracy and speed.

It has precision blade control using a micro-computer controller, combined with a ball screw driver and a pneumatic or hydraulic blade tension system. Check it out at Booth No. K0528.

(https://www.highpointmachinery.com/)

Heavy-duty luxury class from Technik



Technik Associates Inc is displaying its new type of bilateral multi-function compound machine designed for heavyduty work for sizing, moulding, sanding, chamfering, grooving and other edge processing.

The L-Class is defined as a bilateral working unit for more than 8-axes luxury

composite processing, which can be customised to the customer's needs, including using individual slide guide ways, instead of single base slide guide way.

With its high-precision linear guideway, feed chain track and control with ball screw movement, the machine is also widely used in the cabinet doors and wooden door automatic processing lines. Check it out at Booth No. K0616.

(https://www.hipoint.com.tw/ index.php?lang=en)



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CIFF-Guangzhou 2023 is bigger and better

More than 4,000 exhibitors and an exhibition area of 7,00,000 square metres will make the 51st China International Furniture Festival (CIFF) in Guangzhou the world's largest trade fair in 2023.

countries), organised to display new trends and showcase new solutions for complete, environmentally sustainable furnishings, integrated with artificial intelligence and dedicated to improving people's quality of life. Demand for these services among international customers and partners has grown so much that, since last year's edition, the number of exhibitors has increased from 150 to 450 and the dedicated pavilions from two to seven.





It will be dedicated to the entire furniture supply chain, taking place over two phases – 18th to 21st March and 28th to 31st March – at the Canton Fair Complex in Guangzhou Pazhou.

It includes home, office, and commercial furniture, home decor and textiles, and outdoor furniture, in addition to the materials, components, and machinery offered at CIFM/Interzum Guangzhou.

Home Furniture (18-21 March) is dedicated to creating China's best trade fair for original home furnishing products. A new concept and an exhibition layout distributed over three functional divisions optimise the presence of exhibitors, both Chinese and international (coming from 16

The six pavilions comprising Area A in the exhibition complex will feature 150 selected brands with focus on design. The third edition of the Design Spring CIFF Contemporary Chinese Furniture Design Fair takes place in pavilions 6.1 through 8.1, occupying double the floor space and featuring 80 more exhibitors compared to the first edition.

Leading brands are among the main players in the upholstered furniture section in pavilions 1.2 through 5.2 that has grown by over 30% each year. This section helps to promote the evolution of consumption towards an increasingly 'smart', healthy, fashionable, and environmentally sustainable life.

Area B is themed 'Create the New'. Leading manufacturers of high-end dining and living room furniture offer one-stop services in sourcing, OEM, and ODM.

The Poly World Trade Centre hosts outdoor furniture, sunshade and leisure, the largest and most professional outdoor furniture exhibition in Asia. Themed 'Boom', this exhibition covers four pavilions, over 50% more than the last edition.

CIFM/Interzum Guanzhou occupies 18 pavilions of the exhibition complex and an exhibition area of over 1,60,000 square metres, offering a complete range of machinery, materials, hardware, and accessories for the furniture industry.

Participating companies include Homag, Biesse, SCM, DTC, Tutti, SH-ABC, OPK, Schattdecor, Rehau, Dilong, Furen, Huawon, Liamax, Nanxing and KDT.

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- Cutting material HW
- RazorCut Plus: Extremely wearresistant cutting material

Your Benefits

- Finish cut quality
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- Processing of any surface coating
- Long tool life
- Less noise
- Low processing cost





Fifex 2023 begins in Kochi in May

India's largest finished furniture exhibition, Fifex 2023, will be held from May 6 to 8, 2023, at Adlux International Convention and Exhibition Centre, Angamaly, Kochi, Kerala.

Organised by the Furniture Manufactures' and Merchants' Welfare Association of Kerala (FUMMA), it revolutionises India's furniture industry by providing a

platform for buyers and sellers to connect, discover and purchase quality furniture conveniently and cost-effectively.

The show aims to provide an enriching and seamless experience that will ensure the satisfaction of customers and partners, and connect the right people with the right pieces, creating lasting relationships between customers and businesses.

Fifex strives to create a future where

furniture businesses of all sizes and types can easily connect, exchange and collaborate to create new, innovative and sustainable business models.

Fifex 2023 offers more than 300 exhibitors and a wide array of diverse products that meet all furniture needs showcased in more than 10,000 square metres of display area. The product diversity comprises wooden furniture, steel furniture, plastic furniture, cane furniture, home and office furniture, mattresses, modular kitchen, furnishings, linens, tools and machinery.

Visitor registration is open at http:// register.fifex.in/signup. For more information, write to info@fifex.in.









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UMIDS

05-08 April, 2023

Venue: Krasnodar, Expograd Yug, Russia

UMIDS is one of the largest, effective and most attended furniture, interior and woodworking equipment exhibitions in Russia. Visitors to the expo come from 72 regions of Russia and some foreign countries. About 67% of UMIDS visitors do not attend other exhibitions of similar subjects. The unique professional UMIDS audience ensures high commercial efficiency of the exhibition.

https://www.umids.ru/en-GB

IZWOOD

15-18 April, 2023

Venue: Fuar Izmir, Izmir, Turkey

Izwood is a 4-day event being held in Turkey to showcase products for the forestry industry, wood processing machinery, assembly and packaging, handling, warehousing, wood and plastics processing, etc. It covers the agriculture and forestry, architecture and designing, plant, machinery and equipment industries.

http://izwoodfuari.com/en/

BAU

17-22 April, 2023

Venue: Trade Fair Center Messe München, Munich, Germany

The world's leading trade fair for the building industry, BAU is the largest attraction for industry professionals who include architects, engineers, tradesmen, retailers and investors. Everyone involved in planning, building and designing buildings is represented here: for commercial and residential construction and interior work for both new-build and renovation and modernisation.

https://bau-muenchen.com/en/

Zow Bad Salzuflen

03-05 May, 2023

Venue: Messe Zentrum, Bad Salzuflen, Germany

This is an international exhibition dedicated to accessories and components for the furniture industry, including elements and systems, chemical products, functional and ornamental fittings, fabrics and leathers, machines and equipment, interior decoration, semi-finished products, raw and processed materials, services and tools and surfaces. The expo brings together visitors from the furniture industry and interior design sector.

https://www.english.zow.de/

INTERZUM

09-12 May, 2023

Venue: Köln Messe, Cologne, Germany

Interzum is the international trade fair for suppliers of the furniture industry and interior design aimed at trade visitors. It is the ideal business, communication and networking platform for companies. Since it is the world's largest event in the sector, world innovations and product innovations are regularly presented here for the first time and is now set up in an optimally hybrid way.

https://www.interzum.com/en

FIFEX

6-8 May, 2023

Venue: Adlux Convention Centre, Karukutty, Kerala (India)

This is India's largest finished furniture exhibition and is organised by the Furniture Manufactures' and Merchants' Welfare Association of Kerala. It has revolutionised India's furniture industry by providing a platform for buyers and sellers to connect, discover and purchase quality furniture in a convenient and cost-effective manner.

https://fifex.in/index.php

LIGNA

15-19 May, 2023

Venue: Hannover Fairground, Hannover, Germany

The Ligna Hannover 2023 will host more than 1,500 exhibitors and 90,000 trade visitors. Clearly structured across seven sectors, the exhibition covers all aspects of the primary and secondary wood industries and provides an efficient platform where suppliers and customers can connect seamlessly. What makes the event unmissable is its live demonstration format that features tools, equipment and even full production lines presented by global market leaders.

https://www.ligna.de/en/

ZOW

09-12 May, 2023

Venue: Koeln Messe, Cologne, Germany

This is a supplier fair for the furniture and interior design industry related to the home decoration and office design sectors, wood working industries, components, wood finish, furniture accessories, and furnishings.

https://www.english.zow.de/



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DSM Engg helps launch light, eco-friendly chairs



DSM Engineering Materials recently announced the launch of its first collaboration with New Zealand-based direct-to-consumer furniture brand Noho, with their 'Lightly' stackable chairs.

The new plant-and recycled-based product is the first chair to be manufactured from DSM Engineering Materials' EcoPaXX bio-based polyamide, which is derived from the castor bean plant.

This renewable resource is highly CO2-absorbent while it is growing,

giving EcoPaXX a lower carbon footprint compared to fossil-based alternatives. It combines superior functional performance, optimal durability and excellent aesthetics, with a significantly reduced environmental impact.

In line with Noho's strong environmental commitments, it collaborated with DSM Engineering Materials to create Lightly, helping accelerate the next phase of the brand's sustainability journey.

The launch of Lightly marks the second entry in Noho's portfolio of ergonomically designed and more sustainably produced chairs for work, home and events. Lightly chairs are available to

Although 'Lightly' chairs have passed the BIFMA commercial seating standards tests, they have been designed primarily for indoor use.

order in the US and New Zealand.

However, Lightly chairs have been designed primarily for indoor use, and are not recommended for prolonged outdoor exposure. Lightly chairs have passed the BIFMA commercial seating standards testing.

Combining comfort and convenience, Lightly is designed to be light and easily stackable for simplified storage, mobility and versatility. This compactness also



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KLEIBERIT 711.9

Reactive PUR hotmelt for surface lamination. High heat resistance, high green strength, watertight, high cold resistance.



The new plant-based EcoPaXX is a bio-based polyamide, which is derived from the castor bean plant.

reduces the greenhouse gas emissions related to shipping the products, as more chairs can be loaded into a single container.

Lightly offers users excellent comfort thanks to its award-winning, researchbased design. Nevertheless, its thin frame is manufactured using as little material as possible to reduce emissions related to raw material sourcing.

This means the material used must meet extremely demanding performance standards, and EcoPaXX provides the ideal combination of strength, durability, low moisture uptake, and excellent surface finish – resulting in a product that is as attractive and robust as it is sustainable.

Lightly has been recognised by the Chicago Athenaeum with a Green Good Design award for sustainability and the Best Awards with Gold Pins for furniture and sustainability. More information can be found at www.dsm.com.



Chair specifications:

Overall width: 19.7"

Overall depth: 18.3"

Overall height: 29.5"

Seat depth: 16.5"

Seat height: 17.3"

Weight: 2.7 kg

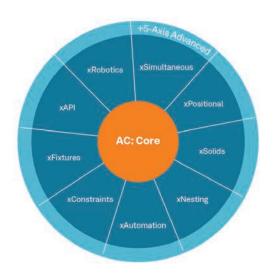
Height of 10-chair stack: 3.5'

40



ALPHACAM Reimagined

The building blocks of a successful manufacturing business



With this latest release, **ALPHACAM** functionally has been split up into a series of new multipliers that build on top of the **CORE 3-Axis Solution**. This replaces the old system of 'Levels' and makes it much easier for users to understand what functionality best suits their manufacturing needs.

This re-structured approach to the software allows users to build the CAM solution they need to meet the immediate demands of their business and eliminate the need to purchase functions that are not required to achieve significant cost savings. Users begin with **ALPHACAM** Core, which gives them the essential CAM functionality for a wide variety of standard 3-Axis machining applications. They can then build highly customized solutions by adding the tools they need to fulfill their broader business needs. Dubbed "multipliers," these tools build upon or multiply, the power of the core software tools.

Learn More

ALPHACAM 2022 continues its mission to help manufacturers save time and materials, increase accuracy, and improve efficiency, with a range of enhancements across the breadth of the product. With improvements to CAD, clamps, automation, machining, nesting, working with solids, and much more, ALPHACAM 2022 sees significant advancements to improve workflows save time and help users go from CAD to machine code even quicker. (https://www.alphacam.com/latest-release)

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www.woodtech.in

















Trapped CO2 'hardens' engineered

wood



Scientists at US-based Rice University have figured out a way to engineer wood to trap carbon dioxide (CO2) through a potentially scalable, energy-efficient process that also makes the material stronger.

Materials scientist Muhammad Rahman and collaborators found a way to incorporate molecules of a carbon dioxide-trapping crystalline porous material into wood, according to a study published in Cell Reports Physical Science.

"Wood is a sustainable, renewable structural material that we already use extensively," said Rahman. "Our engineered wood did exhibit greater strength than normal, untreated wood."

The network of cellulose fibres that gives wood its strength is first cleared out through a process known as delignification.

Wood is made up of three essential components: cellulose, hemicellulose and lignin. Lignin is what gives wood its colour.

"Removing the lignin is a fairly simple process that involves a two-step chemical treatment using environmentally benign substances," says Rahman. "After removing the lignin, we use bleach or hydrogen peroxide to remove the hemicellulose."

The de-lignified wood is soaked in a solution containing micro-particles of a metal-organic framework (MOF), known as Calgary framework 20 (CALF-20). MOFs are high-surface-area sorbent materials used for their ability to adsorb CO2

Schematic of the step-by-step fabrication process of the Wd-CALF-20 composite for CO2 capture and storage (A). Optical images of 1×1×1 cm3 wood pieces (B) at different stages of modification. Optical images of the wood pieces (C) showing the volume shrinkage on drying in the case of the d-Wd versus the Wd-CALF-20 composite because of the filler effect of the MOF

molecules into their pores.

"The MOF particles easily fit into the cellulose channels and get attached to them through favourable surface interactions," wrote Soumyabrate Roy, a Rice research scientist and lead author of the study.

MOFs are among several nascent carbon capture technologies developed to address anthropogenic climate change.

"Right now, there is no bio-degradable, sustainable substrate for deploying CO2-absorbent materials," Rahman said. "Our MOF-enhanced wood is an adaptable support platform for deploying sorbent in different CO2 applications."

"Many of the existing MOFs are not very stable in varying environmental conditions," Roy said. "Some are very susceptible to moisture, and you don't want that in a structural material."

The manufacturing of structural materials, such as metals or cement, represents a significant source of industrial carbon emissions. "Our process is simpler and 'greener' in terms of both substances used and processing by-products," says Rahman.

The next step would be to determine sequestration processes, as well as a detailed economic analysis to understand the scalability and commercial viability of this material. For details, visit www.cell. com.



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THE OZONE BED LIFT-UP SYSTEM CONVENIENCE AT A LIFT.

The need for storage space or sustainable solutions that help maximize space is crucial to Indian homes. Most families use bed boxes as a means to store large household items or bedding-related material.

With homes becoming more compact, bed storage boxes are preferred by families, especially those with children.

Primitive bed boxes are heavier, often made with bulky wood, and can therefore be extremely difficult to open and close. Operating or handling such heavy bed boxes may even require the efforts of two people.

The Ozone bed lift-up system, is easy to use, and lifts and closes smoothly. Storing away your essentials and accessing them when required can now be smoothly done.

What makes the Ozone bed lift-up system a necessity?

Ordinary bed lift-up systems aren't durable or dependable. Several malfunctions make lifting and usage difficult.

The Ozone bed lift-up system has been designed to meet global quality standards and has been specifically tested for the Indian consumer market.

Each system goes through stringent quality control measures that test the lift-up for weight, durability, intensity, etc.

Other advantages include- more storage, a load capacity of up to 200 kgs and state-of-the-art design.

The 33-degree angle opening offers more space when risen and allows for a seamless and silent closing.

What makes the Ozone bed lift-up system a preferred choice?

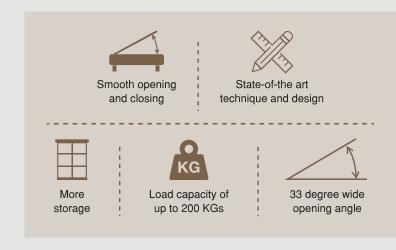
This ease-of-operation makes the Ozone bed lift-up system a favourable choice for consumers.

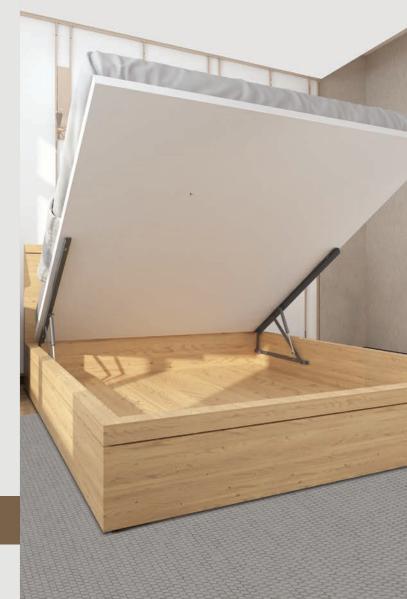
Known for its high-quality products and innovation, Ozone is one of India's leading manufacturers of hardware fittings and solutions. Designing products keeping the needs of the Indian customers first, the brand provides inclusive and smart solutions in not only the home improvement space but also furniture fittings, digital locks, glass fittings, doors, railings, and kitchen fittings.

Scan the QR Code for more information



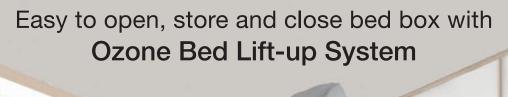
Discover how the Ozone bed lift-up system can help simplify your storage needs and offer easy-to-use, sustainable solutions.





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Tested at various levels Ozone bed lift-up systems are long-lasting and reliable. Also, superior hydraulic system & weight bearing capacity offer ease of operation. And that makes using bed boxes fun and effortless for a longer period of time.



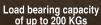




















Better, stronger, together!



The 7th edition of DelhiWood, India's premier trade fair for the woodworking and furniture manufacturing industry, concluded successfully on 5th March, 2023, at the India Expo Centre and Mart in Greater Noida.

The 4-day event was a huge success, attracting more than 27,000 visitors and 450-odd exhibitors from around the world.

DelhiWood 2023 showcased the latest advancements and innovations in woodworking machinery, tools, materials and accessories, as well as furniture production, fittings and hardware.

The event provided the perfect platform for furniture manufacturers, carpenters, architects, interior designers and other industry professionals to explore new products, technologies, and techniques that can enhance their productivity

and profitability.

The event saw participation from countries including Canada, France, Germany, Gabon, New Zealand, Poland, Taiwan, Turkey and the US.

Speaking on the occasion, Sonia Prashar, Managing Director of NürnbergMesse India said, "DelhiWood 2023 is a true reflection of our commitment to innovation, sustainability and excellence. We will continue to create unique, focused and relevant platforms for the woodworking industry which facilitate knowledge and technology exchange."

Architecture conference

The 2nd edition of Wood+ in Architecture & Design which took place on March 3, explored the versatility and durability of wood in the construction industry. It hosted leading architects and domain experts, who addressed various facets and nuances of wood in the construction and design industry.

Supported by Canadian Wood, sessions at the event covered specific design and construction topics related to wood,







including mass-timber products, design aspects, as also sustainability.

Leading architects and designers - among them Surya Kakani (Kakani Associates), Ruchir Panwar (E3+A Designs), Sheetal Rakheja (Aeon Design & Development), Puneet Khanna (Habitat Tectonics Architecture & Urbanism), Amit Gupta and Britta Knobel (Studio Symbiosis) and Vivek Abhilash Sharma (Artius) contributed via case studies and panel discussions.

furniture manufacturing and woodworking industry in India has experienced considerable expansion due to rising demand for high-quality furniture in both domestic and international markets.

The industry has also made notable strides towards embracing sustainable practices, including the use eco-friendly materials and the adoption energy-efficient manufacturing processes.

Exhibitor feedback

have been participating in DelhiWood since its inception in 2013. With every exhibition, we have grown alongside it. The event continues to set higher standards for itself, and this year's exhibition has outperformed previous editions," said Gopi T., Managing Director of Woodtech Consultants.

The sentiment was also echoed by Suresh Balakrishnan, Managing Director of Leitz Tooling Systems India. "I must say that every edition of DelhiWood has shown progressive improvement, and the current event has surpassed all previous ones," he said.

The entire event was summed up by Sivakumar Venugopal, Group Director, NürnbergMesse India. "We are pleased to have successfully organized the 7th edition of DelhiWood. It provided a unique opportunity to network, share knowledge, and gain insights into emerging trends and technologies," he said.

The 7th edition of India Mattresstech+ Upholstery Supplies Expo (IME), the premier event for the mattress manufacturing industry in India, also took place at the same time. The exhibition witnessed an impressive turnout of more than 6,000 visitors from India and abroad.

NürnbergMesse is a globally successful trade fair organizing company, with 17 shows spread across different Industry verticals. Every year, about 35,000 exhibitors and up to 1.5 million visitors participate in the own, partner and guest events of the NürnbergMesse Group.





'We are the sunrise sector'

"We have to understand that furniture is a capital spend and will create a vacuum in matured markets, leading to a recession for a few years, where the retailers of those countries will find it difficult to survive with low business," says Satyan Thukral, CEO of Mumbai-based Caple Industrial Solutions.

The effect in India would be seen in the export markets in the short term. Exporters will look for new opportunities and avenues in other markets. So he sees a slight trend of solid wood furniture entering the domestic market.

According to Satyan, with more lengths of expressways getting operational to offer better connectivity, with new industrial corridors, townships and clusters in the pipeline, more people from the unorganised sector will move to organised furniture manufacturing.

"For the next few years, woodworking workshops and factories and the machine tool industry will be a sunrise sector in India," he adds.

As India still has small workshops, the industry's strategy should be to deliver more value at global quality standards, but at Indian prices. "This is our strength and sweet spot in the industry. Scale and efficiency can follow once this is

achieved," Satyan feels.

Also, India should focus on low-cost automation, because high automation will take away jobs. "We don't want only one section of the country to grow. We should be using the advantage of cheap labour with low-cost automation," he stresses.

Caple is upgrading its Mumbai and Bengaluru showrooms and making them available to support the Skill India initiative. The Mumbai showroom will be spread over 16,000 square feet and host the best Indian, European and Chinese technology brands. This will help build a pipeline of skilled labour.



India should focus on low-cost automation as high automation will take away jobs.

- Satyan Thukral, CEO, Caple Industrial Solutions



Making rubber wood a sustainable alternative

Colonial Lumbers produces finger-jointed edge glued panels of various thicknesses ranging from 12-mm to 44-mm. Its new state-of-art factories were set up with technical support from Nitshaw Technologies, Bengaluru, and are equipped with the best available woodworking machinery from around the world, including Weinig, Fulpow, Wood-Mizer, Tritherm and Ascu.

Strict quality control measures and best production are practices that define the company. All the batches for chemical treatments and seasoning are subjected to quality checks at the in-house laboratory setup along the production line.

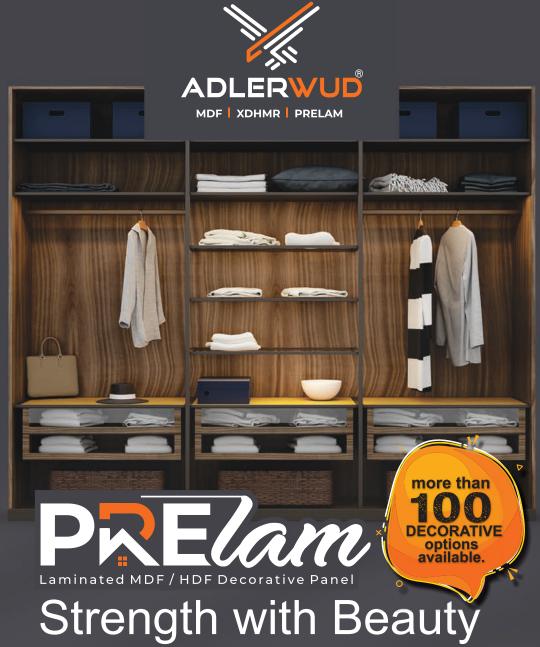
Periodic quality checks are carried out at the Central Wood Testing Laboratory of the Rubber Board.

Today, rubber wood lumber, finger joint panel boards, and other such products are widely accepted throughout India. At present the company's products are available in several cities and in many foreign countries also.

The finger joint panel boards are marketed

with the brand name 'Colonial Boards'. Today, the company has emerged as the largest manufacturer of rubber wood sections and panels in India.





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BSB (Both Sides Balancing)

ADLER WOOD INDIA PVT. LTD.

US hardwoods hike share in India market



A dozen US-based hardwood lumber exporters are committed to supplying India, as was evidenced in DelhiWood 2023.

US wood exports to India reached an all-time high in 2022 with the value of hardwood lumber and veneer exports totalling US\$ 8.618 million, according to the American Hardwood Export Council (AHEC).

The statistics, which have been compiled from the latest data released by the United States Department of Agriculture (USDA), were announced at the opening of DelhiWood, at the India Expo Centre and Mart in Greater Noida.

A closer look at the numbers for 2022

reveals that total hardwood lumber shipped from the US to India increased by 13% in value to US\$ 6.902 million (up from US\$ 6.120 million in 2021), but decreased marginally by 4% in volume to 9,724 cubic metres (down from 10,133 cubic metres in 2021).





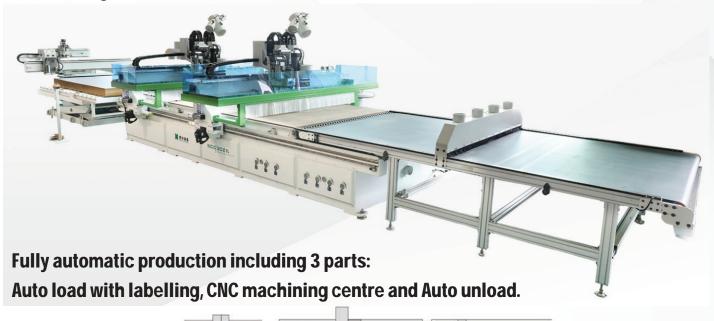
Rajasthan's handicrafts sector is a really interesting opportunity for American Hardwoods in India.

- Mr Roderick Wiles, AHEC Regional Director.

Turnkey solutions for the panel processing customers



CNC Nesting Machine with AL+UL NCG3021L PLUS



HIGHLIGHTS:

- NCG3021L IS usable for max 4000 * 2100mm panel
- The machine has completed with auto loading, labelling, top side boring, grooving, cutting panel in line and shape, and unloading

Main Spindle + 21 drills drilling block

Powerful main spindle

- 12kw Italian powerful air-cooling ATC main spindle, , max rotating speed up to 24000rpm/min, can work with 50mm thick panel.
- Coupler type HSK-63F making contact between tool holder and clamp closely, fix tightly, fast for ATC and suitable for high-speed working
- Extra air blowing function within main spindle, prevent any possible influence caused by wood dust.

Drilling block (option, standard is 10)

■ Drilling block with 21 drill bits in different diameter, add invertor to make it possible to adjust rotatin speed within 0-6000 rpm. Max boring efficiency.

Cover

■ Processing unit is fully covered by dust cover of good appearance for better working condition.

Automatic tool changer with 12 slots

- Coupler type: HSK-63F;
- The automatic servo tool change magazine with 12-slots suitable for complicated process requirements, no need to change tool manually offers maximum operation convenience, save time.

 Tip: Standard with two tool couplers.

Auto labelling

- High-precision and quick labelling; Movement of X and Y axis by rack and pinion;
- Perfect time arrangement: auto labelling and nesting processing work simultaneously saves waiting time;
- Air blowing device to remove possible dust on panel surface for better sticking effect; Independent lubrication.

Labe

The necessary work piece information including panel size, barcode, QR code, customer name, order info, edge banding info can be shown as request.

Tip: Additional furniture making software is necessary for labelling function, but not included in standard machine.

NANXING wood working Machinery INDIA Put Ltd.

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At the same time, direct exports of American hardwood veneers to the market reached US\$ 1.716 million. Committed to supplying India, which has demonstrated a growing appetite for hardwoods in recent years, AHEC participated in DelhiWood 2023 with an American hardwood pavilion, which included 12 USbased hardwood lumber exporters.

The top six American hardwood species exported to India last year were hickory (US\$ 2.352 million; 2,581 cubic metres), white oak (US\$ 2.216 million; 3,173 cubic metres), red oak (US\$ 1.414 million; 2,334 cubic metres), ash (US\$ 325,000; 514 cubic metres), walnut (US\$ 207,000; 214 cubic metres) and maple (US\$ 194,000; 428 cubic metres).

Significant increases were seen in the value and volume of exports of red oak (129% and 127%), maple (106% and 386%), white oak (48% and 43%), and walnut (41% and 55%).

"The Indian domestic market is growing and will continue to grow. People are willing to spend money on good quality solid wood furniture, doors and windows, and interiors. That's a really good long-term opportunity for American hardwoods," said Roderick Wiles, AHEC Regional Director.

Jodhpur mission

Before the show, AHEC, the leading international trade association for the American hardwood industry, hosted a 'mini-convention' and trade servicing mission to Jodhpur (Rajasthan) in late February, 2023.

A total of 12 US hardwood exporting companies, the Chief Inspector from the National Hardwood Lumber Association (NHLA), AHEC technical consultants and representatives from the USDA Foreign Agricultural Service were in Jodhpur to conduct a series of factory visits in conjunction with the Jodhpur Handicrafts Exporters Association (JHEA).

Testament to the increased interest and demand for American hardwoods, over 200 furniture manufacturers and exporters attended the mini-convention.

According to the Export Promotion Council for Handicrafts (EPCH), India exported US\$ 1.1 billion worth of wooden handicrafts in FY 2022, increasing from around US\$ 800 million the previous year.

Half of the exports were destined for the US, while other significant markets for India were Germany, the Netherlands, the UK, France, Canada and Australia.

The overwhelming majority of these were made from mango, sheesham and acacia, all Indian hardwood species. However, a small, but growing, proportion was made from imported temperate hardwoods, such as oak from both Europe and North America.

More than 200 furniture manufacturers from the Jodhpur cluster attended AHEC's 'miniconvention' in Jodhpur in February this year.





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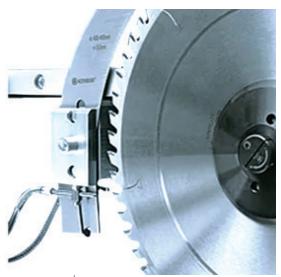






Versatile panel saws from Altendorf





The hand guard (L) employs AI technology to prevent injuries, while a cooling spray (R) is useful in cutting low-temperature plastics.

Altendorf produces and distributes a wide range of sliding table panel saws. The saws are versatile machines that are used to cut different materials in a variety of applications.

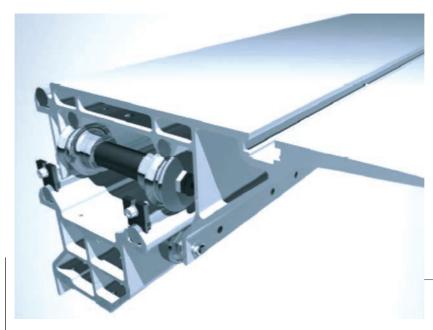
A sampling of materials that can be cut include wood-based panels (particle board, MDF, plywood, OSB, etc.,) non-ferrous materials (aluminium, copper and related alloys and extrusions,) and composite panels (FRP, plastics, nylon, acrylic, Corian, etc.).

From entry level to state-of-the-art, the company offers models to suit specific applications, some examples are detailed below:

- Extended table length, up to 5 metres, to cut large plastic sheets/ blocks
- Up to 15 HP main motor power to cut sections of timber/ plastic 200 mm in thickness
- Cooling spray, used when cutting aluminium blocks or low temperature melting plastics
- Grooving up to 19-mm width without change of shaft
- Hand guard feature based on cameralinked AI technology to prevent accidental injury.

Altendorf sliding table saws permit use of tooling in the form of appropriate types of saw blades, diamond wheels, grooving saws, etc., to facilitate clean and accurate cutting of different materials.

By providing customised solutions for specific material cutting needs, the company is able to provide greater flexibility and versatility in their machines, ultimately improving the performance and efficiency of a customer's operations.



The table length can be extended up to 5 metres.

- Varied Technical Parameters
- Easy Selection for a Specific Machine Model



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CNC turning lathe from Bacci



Bacci's T4MO is an innovative CNC turning lathe with four vertical spindles for machining a variety of solid wood elements, including chairs, sofa and table elements, gunstock elements, clothes hangers, knives and hammers handles, musical instruments, sports instruments, etc.

The machine reaches a high output rate, with four parts machined each working cycle (one piece for each rotating spindle) with high accelerating cutterheads designed to tremendously boost turning productivity.

It can execute perfect milling of not only rounded items but also of flat surfaces and sharp edges, and has a reduced footprint (10'x6' with safety enclosure), being developed in vertical direction.

T4MO CNC was recently awarded the prestigious IWF Challengers Award at the Atlanta Fair (August 2022). At the next Ligna fair at Hannover (15th - 19th May) an advanced model will be presented.

Canadian Wood continues to bear the

torch

Canadian Wood participated in DelhiWood with the objective of enhancing awareness certified wood from sustainably managed forests of British Columbia, Canada.

It showcased products made using distinct species, highlighting their properties and uniqueness. The five distinct

Canadian Wood emphasised the collaborative work it has done with wood product manufacturers across India.



NK NG



WEINIG OFFERS MORE





species are Western Hemlock, Douglas fir, Yellow cedar, Western red cedar, and SPF (Spruce-Pine-

The focus was on reman applications, employing creativity, design and latest manufacturing techniques.

The products displayed at the Wood booth also Canadian emphasised the collaborative done with other organisations in the woodworking industry including, tools, machinery, coatings adhesives, etc. in addition to wood product manufacturers.

"I see a very bright future for wood as a construction material. Other things can deplete and take aeons to renew and recover, but wood can be replenished anywhere between 40-50 years," said Canadian Wood Country Director, Pranesh Chhibber.

This time Canadian Wood displayed products manufactured by Bramola (Faridabad) and Artius (Gurugram) at its

"We have been educating professionals in the woodworking industry through seminars, webinars, training workshops and wood colleges. We have often collaborated with private and public institutions such as the Furniture and Fittings Skill Council, to develop and enhance local skill sets while promoting sustainability in the woodworking sector," Pranesh added.

Canadian Wood also supported a conference on Wood and Architectural Design held on 3rd March, where Pranesh spoke on 'Wood Construction: An Opportunity for a Sustainable Future'.

Canadian wood comes as ready-to-use lumber (sawn timber) that is duly graded, seasoned and consistently sized, thereby avoiding the cumbersome waste of time, energy and money on sorting the wood upon receipt.



Pranesh Chhibber, Country Director, Canadian Wood, speaking on 'Wood Construction: An Opportunity for a Sustainable Future'.

Canadian Wood's competent technocommercial staff provides handholding and technical support to manufacturers and contractors and work with designers and architects from the early stage of their projects, advising on the most appropriate species and grades. To learn more about Canadian Wood, visit www. canadianwood.in.

Formica showcases its latest product range



At DelhiWood 2023, Formica launched its Incanto collection, which is a selection of 10 décors combined with distinctive textures in three different families: the woods, the stones and the

Each décor is the result of a precise stylistic choice and has been

inspired by the natural surroundings, by the most contemporary trends, and by an innate taste for design and art so peculiar to the Italian culture and way of living.

Formica also introduced VIS technology, which gives a more realistic appearance to surfaces. It has 20 shades and has been designed to have a high wear resistance as well as organic components that increase the texture's tactile experience.

The brand will soon launch Cora, a breakthrough collection of high-pressure laminates with six carefully colourmatched cores having 22 shades to look out for!

The company also showcased its star products, Fenix and DecoMetal at the show. Fenix, manufactured by Arpa Industriale and distributed by Formica in India, is an innovative element that can enhance the look and feel of surface interiors owing to its properties. The sustainable materials used in production, alongside the premium-looking matt surfaces, make it an obvious choice for premium interiors.

DecoMetal is a range of decorative metal laminates manufactured by Homapal in Germany.

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MODEL : ZEDLAM 350 HD HEAVY DUTY LAMINATE SANDING MACHINE



MODEL: ZEDSAN 5326 TCS
TRIPLE HEAD CALIBRATING AND
SANDING MACHINE



MODEL : ZEDSAN 3426 TBS Heavy Duty Both Side Sanding Machine



MODEL: ZED-HDC-350
HEAVY DUTY BOTH SIDE
CALIBRATING MACHINE



MODEL: ZEDWOOD 1050 CS SOLID WOOD CALIBRATING & SANDING MACHINE



MODEL : ZEDSAN CAL 290 SINGLE HEAD CALIBRATING MACHINE



MODEL : ZEDSWEEP BM Double / Triple Head Both Side Brushing Machine



MODEL : ZED-PNGS-8FT PNEUMATIC GLUE SPREADER



MODEL : ZEDSAN CCM CORE COMPOSING MACHINE



MODEL : ZEDSAW 2490 HS AUTOMATIC EDGE CUTTING MACHINE (With Motion Controller)



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Biesse launches upgraded nesting solution



Biesse unveiled its upgraded nesting solution, Rover AS FT', at DelhiWood. The machine features improved efficiency, speed and accuracy. The product features a gantry structure with dual X-axis motors that aim to enhance precision and reliability in machining operations.

The reinforced transmission guides add

greater rigidity, improving machining quality and precision. It also boasts higher axis motor power, which increases acceleration and speed, thereby reducing cycle times and waiting times.

Overall, this product promises to deliver high standards of precision and reliability in executing machining operations. Live demos of Biesse's cutting-edge machinery, including CNC routers, edge banders, CAD/CAM software and IoT solutions were also carried out.

The brand also showcased its latest range of advanced technologies and solutions for the woodworking and furniture manufacturing industry. Biesse has undergone modernisation aimed at enhancing efficiency through restructuring and adopting a transversal approach.

This includes adopting a new visual identity (logo) to align the group's positioning to convey new values and retain distinctive sector features.



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 Notes and News and Products & Processes is as per the details furnished by the respective manufacturer/distributor. It does not reflect the views of WoodNews or of the management of PDA Trade Media.

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SENOSON









Merino shines light on Merinova range



Merino, India's leading manufacturer of high-pressure decorative laminates made an impact at DelhiWood, with its range of products including Luvih, restroom cubicles, lockers, vanity, Hanex, Merinolam, Merino Shaurya and Armour.

DelhiWood served as a platform for Merino to connect with the architect and designer communities, and to showcase the star product of the event Merinova, the versatile range of pre-laminated and post-laminated panels crafted to suit a diverse array of applications.

The surfaces are dimensionally stable, moisture- and scratch-resistant, making them durable and reliable. The premium and contemporary designs from the house of Merino is going to boost the Indian interiors and design market.

Madhusudan Lohia, Director at Merino Industries said, "Merino will continue to work relentlessly to offer value to the market by adding new and innovative products and designs helping the industry to grow further."

The stall, spread across 195 square metres, gave visitors an opportunity to touch, feel and experience the products on display, thus generating interest and cultivating a potential consumer base while enhancing the credibility of the brand.

Jaimakes the most of One of the highlights of the exhiwas Optimus' new boring machin



Jai Industries had another successful DelhiWood show, where it showcased its latest and most innovative woodworking machines, especially their flagship products from the WudPro, Modula and Optimus ranges.

One of the highlights of the exhibition was Optimus' new boring machine, Jai-5.09, equipped with advanced technology, allowing woodworkers to create quick, easy and efficient drill on panels.

Another popular product at the exhibition was the high-speed, automatic edge banding machine that is designed for high-quality edge banding of boards or panels. The machine's precision, efficiency and quality of product output were highly appreciated by the visitors and industry pioneers.

The company also showcased its range of automated cutting solutions, edge banders, CNC machining centres and drilling solutions, thickness planers, and other woodworking machines.





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RazorCut Plus is a game-changer



In furniture production, high feed rates and perfect machining results are required for sizing panels, especially when materials and the choice of laminations are constantly changing.

RazorCut Plus circular saw blade from Leitz makes it easy to cut panels in finish cut quality at high feed rates. A wide variety of panel materials and surfaces can be processed perfectly. The saw blade is particularly suitable for production lines with high part outputs due to maximum tool life.

Benefits

- Highly wear-resistant carbide tips with special cutting edge geometry
- Smooth cutting longevity of saw blade twice the life of conventional saw blades
- Tough saw blade body makes use of high feed rates of more than 30m/min possible
- Processing of a wide variety of conventional and advanced panel materials
- Special UT design of tip arrangement reduces noise up to - 4 decibel
- Reduced resin build-up due to special anti-resin coating
- Finish quality is excellent, even when the saw cut remains unprocessed
- · Can be re-sharpened several times.

The use of the saw blade in combination with DP scorer is recommended to further increase productivity, reduce cost per metre output and reduce downtime. For more information, check out www.leitzindia.com.

Richwood launches Richfill Edge Coat

Richwood Industries, a company dedicatedly working to improving the quality of plywood and wooden furniture, has introduced its new research product, Richfill Edge Coat, at DelhiWood.

Normally plywood manufacturers use distemper, dipping water or varnish to beautify the edge, but the colours fade fast and it creates a patchy look on the edge.

Richwood's solution for this problem is the Richfill Edge Coat. This is a concentrated coloured powder which gives a natural look to the edge of the plywood. Its colours are very durable for plywood and are very easy to apply.

Richfill Edge Coat is a water-based powder which is very user-friendly. The solution-making procedure is really easy; only water needs to be added according to the desired shade to make a paint-like solution.

This solution can be sprayed on the edge of plywood to get a natural gurjan-like brown look. If you want to highlight the edges of your plywood and make them stand out, then this premium quality edge coat is an ideal choice.

Richfill Edge Coat combines quality and affordability and is available in brown and dark brown colours.

"Richfill is the only product of quality that a manufacturer can rely on. The price is affordable to the manufacturers. Quality has always been the main focus not only in Richfill Edge Coat but also in all our other products," said Hrishikesh Badamikar, Managing Director of Richwood Industries.

Richfill crack filler, Richfill calibrated filler and Richfill glue absorber are the other premium brands useful for plywood manufacturers.

Brown





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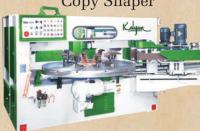
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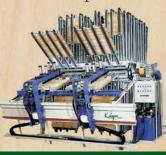
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Premium extra-long laminates from Ornare

For the first time in India, the 1-mm laminate range is offered in 10x4-foot size with perfect matching edge bands, along with the same texture emboss as the laminate for that perfect finish and veneer feel!

Ornare now also provides 10x4-foot substrates, including high moisture-resistant plywood, with supporting hardware like handles, profiles and stiffeners, all specially designed for longer cabinetry.

The company unveiled its premium extralong laminates range from Europe at the recently concluded DelhiWood. It was the perfect opportunity to see, first hand, this unique range and get a first-hand experience of Ornare laminates, Ornare acrylic panels' range and the Egger range offered by Decora Group.

The Ornare laminates range is an interesting amalgamation of soft Scandinavian woods, subtle pastels and materials such as stone and textiles,



offering the decors you desire along with durability.

Rich in detail and contemporary to the core, it is the perfect amalgamation of decors and textures. On offer are over 45 unique and novel decors with enchanting texture finishes.

With wooden decors that feel unbelievably real, pastels to mesmerize your senses and tactile touch of textures, these laminates change the way you visualize and design spaces and provide the power and freedom to create better spaces with a simple approach.

Reach Team Ornare at info@ornare.in for more details.

Superb matte finishes from Action TESA

Action TESA, one of the biggest MDF manufacturers in India, announced the launch of Ornamatte, a series of super matte finishes that provide a new dimension to interior design.

It comes equipped with unique UV coating hybrid technology that enables the production of all designs in two modes, UV finish and Super Matte finish.

Matte finishes are currently trending everywhere, be it interior design charts for walls, furniture, or flooring, and Ornamatte seeks to completely transform the look of any space.

One of its highlighted features is its fingerprint resistance. The product provides a smooth satin finish that is pleasing to the touch, while the colors are a treat to the eyes. The super-smooth surface does not carry any fingerprints,

ensuring that the product always looks clean and pristine.

With Ornamatte, designers can go beyond the limitations of traditional finishes and explore a new world of unlimited designs. The product provides a unique concept that allows customers to give wings to their imagination.

For more information, visit www.actiontesa. com.



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Eco-friendly wood protection from Denmark





Denmark-based Protego International offers a complete range of surface treatment of interior and exterior floors, including interior and garden furniture. For the pre-treatment of floors and furniture, it offers positive, reactive stains for use in industrial plants, either with rollers or spray guns.

For final surface treatment,

various products are offered, including a hard-oil wax, which is available in two variants: for industrial production and for application with floor buffing machines.

Protego Hard Oil Wax is based on pine tree natural resins especially selected for durable finishes of floors and furniture. The hard oil impregnates the wood grain and the wax leaves a protective coat on the surface. The product is available in 22 colours which may be mixed too.

For exterior decking boards and furniture, Protego offers specially developed thermo oil and decking oil. Thermo oil creates an effective membrane that lets the wood breathe while providing optimal protection.

This can only be achieved by carefully selecting raw materials, based solely on natural, highly durable resins. In addition, nano-technology is used for various additives.

The cracking and weathering caused by sunshine, wind and weather are optimally prevented. At the same time, it has built-in protection against bacteria and fungus developing in and on the surface of the wood.

The Protego product range offers extensive solutions for natural protection of wood that include:

- Primers for bringing colour to the wood
- Natural oils for protecting the wood
- Natural maintenance for rejuvenating oiled wood
- Protection of exterior wood with lasting solutions

Evo Wood Co. is the importer and distributor for India. For further information check out www. protegodenmark.com.

Flat lamination line from Turkey for transparent foils

Flat lamination application is becoming a very popular and preferred process in woodworking and furniture industry. Modern furniture making and wood-based panels are laminated with diverse laminating materials like decor foils, veneers, thermo-plastic foils, acrylic sheets and PET foils.

Such finished panels have a variety of uses like kitchen and home furniture, office furniture,

exhibition displays, and so on. These materials are bonded with PUR adhesives, which are free of urea and formaldehyde.

Flat lamination with hot-melt PUR adhesive method is now becoming the accepted method for use in panel and furniture sector, especially in MDF and particle boards.

Such lamination lines are available at affordable price with European technology, and currently one of such line is under installation in India.

Aadhunik Woodworking Machinery is a local partner of Vermak (Turkey) and takes care of after sales service in the Indian market. Aadhunik has also tied up with Neoflex- Coim of Spain for quality PUR adhesives.

Vermak also offers specially designed flat lamination lines for the door industry with edge lamination, which offers higher relief to door manufacturers as they save the time of edge lamination. For more information, write to praveendhore@gmail.com.

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Hardness of Coating / Film

Tension, Compression Force / Durability

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To get details on other tests relevant to trade and export of woodware, contact:



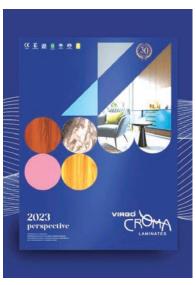
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DE HI EXHIBIT

Virgo unveils new laminates range





Virgo Laminates introduced its new 1-mm Abco Mica and Croma catalogue at DelhiWood with new styles and collections, and continued its tradition of taking all involved stakeholders forward for a shared and mutually beneficial goal.

New textures, super matte designs, mirror high gloss, and SF finish are the key highlights of the catalogue. The three new textures include Zero Oak with five new oak designs, Fluted available in nine colour variants, and Stone in four classic designs.

The new Super Matt designs are available in 19 colours, including the new grey and pastel shades. They also have 10 new stylish wooden designs and two new stone designs in super matt.

The new Mirror High Gloss is available in 26 solid colours with 10 wooden designs to choose from. Virgo laminates has also introduced four new marble and stone designs in high gloss.

Prolance: future of interior design When a designer creates anything using For the factories the platform helps in the

Prolance design-tohas manufacturing automation platform helping designers, architects and manufacturers in simplifying the workflow for interior projects. Built by industry veterans who have executed more than 5,000 projects, it has been developed in India to address the challenges faced by the interiors industry.

Built as a plugin to SketchUp, it is extremely easy to learn and offers an enormous amount of flexibility. It has helped save 40% in execution time and 20% in cost.

When a designer creates anything using this platform, he/she can seamlessly convert the drawings into renders, quotes, bill of material, cut lists and 2D files automatically. Designers can use predesigned spaces to create professional proposals for their clients within minutes.

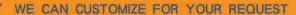
Apart from the regular modular units, designers can use the platform to even design kitchens, customised wardrobes and other units. Designers are not restricted by the pre-fed library: they can add their materials, finishes and prices as well.

The company has recently launched cloud rendering to help designers to get their drawings rendered without having to buy expensive rendering software or hardware.

For the factories, the platform helps in the conversion of drawing files into manufacturing-ready files automatically. This removes the huge effort required in interpreting the designer's drawings and recreating machine-ready files for the manufacturers.

The Prolance platform is compatible with leading machine manufacturers such as Homag, Biesse, SCM and Felder. Their factory management system enables better monitoring of the workflow of the factory and enables owners and managers to get a complete view of the activities through reports and dashboards.

To know more about Prolance, visit www. prolance.co.in.



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WD213 18 - 100 mm



WD314 14 - 96 mm

WD315

20 - 122 mm

WD316 32 - 192 mm



WD317 25 - 96 mm WD318 20 - 78.9 mm

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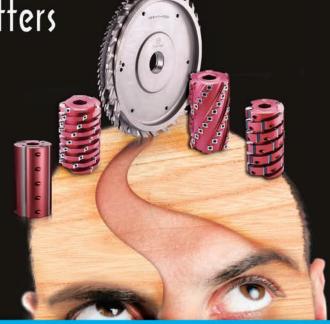
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SCM now offers project solutions



Italian technology supplier SCM develops and offers all-round projects for complete production processes, in particular for the manufacturers of furniture, doors and chairs to the Indian market.

Balkar Singh, SCM's Sales Manager and Key Account Manager for the Indian sub-continent (R), interacts with industry professionals in Delhi.

Automation systems (cells, cell systems, integrated lines) and innovative

standalone machines that stand apart for being flexible, sustainable and highly efficient were all on display at DelhiWood.

This has been made possible with the support of an engineering department of professionals who work alongside the customer throughout the project, from the layout of the plant or the entire site to analysis and optimisation of costs and completion times. This, together with the technological level of SCM solutions, is the strength of the Italian group.

In addition to effective and reliable design, development and manufacturing systems, the significant experience acquired by the company in project management allows it to take on projects of any size anywhere in the world.

SCM has further strengthened its presence in the Indian market with dedicated warehouses, showrooms, experts and local technical and sales staff. It aims to provide direct, widespread sales and after-sales service assistance at each stage of customer relations, from pre- to after-sales.

Designer 'Stealth' cabinets from Utturkars

At Pune-based Utturkar's Wood Culture the process for innovation has the customer and market as an integral part of development. With over 25 years of experience in the Indian market and the deep connects with luxury Indian brands, the constant dialogue brings about the need to evolve and fulfill consumer demand.

'Stealth' is one such development. It is designed by architect Ashwin Utturkar and all the technical features of Stealth were designed and developed within the company.

The machinery required for producing this challenging product was procured from Germany and the realisation of this project took around 18 months.

Stealth is characterised by the particular structure in aluminium, with exclusive design details, by the mechanisms of movement and by shelves equipped with integrated LED lighting system.

The innovation introduced by the closing system, the absence of visible screws, joints and plastic gaskets are the results of an exclusive technical research. Stealth stands out with its four side glass wall with the ability to be wall hung and allow the cabinet interior to stand out as if it



were floating.

Stealth comes with shelves in standard heights, widths and depths but can also be customised to user requirements. For more information call +91-9595060500.













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Panel Saw

- 10 years warranty on sliding table.
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gabbiani p 75

Beam Saw

- Selectable air blowing table: an essential tool.
- Saw carriage with independent raise of the blades.
 Increasing of productivity up to 30%.



minimax me 20

Edge bander

- Simple and intuitive,
 Ideal edge application.
 Quality finishing and versatility.



minimax me 40 t

Edge bander

- Premilling.
 Partial corner rounding.
- · scraping.



olimpic k 360 r

Edge bander

- 11 m/min panel feed speed.
 AUTOSET" pneumatic positions of units.
- Pre-milling, corner rounding, scraping units.



stefani kd

Edge bander

- 10-20 m/min panel feed speed.Solid wood up to 12 mm thickness
- . "SGP" glue pot for EVA or PU glue.



stefani xd

Edge bander

- High productivity with comer rounding up to 30 m/min.
 The use of EVA and Polyurethane glue is made possible.
 Zero glue line possible with "AirFusion" technology.



morbidelli m100

CNC machining centre

- PRO-SPACE safety systems, it requires less floor space.
 JQX: 5-axis direct-driven spindle head.
 60% time saving in drilling cycles.



morbidelli cx 200 r

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- ++60% of Productivity: Two Drilling Heads.
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- An optimal planing with minimal effort.
 Professional, massive and compact.
 Cast iron thicknessing table lifts on 4 spindles.



minimax cu 300 c

Universal combination machine

- 5 Function Combination Mach
- Incredible cutting of very thick solid wood and panels.
- · Professional and very sturdy.



minimax tw 45 c

Spindle moulder

- 4-speed shaper with sliding table.
 Cutting height of 100 mm.
- . The maximum tool diameter 210 mm.



profiset 60

Throughfeed multi spindle moulder

- · More productivity and improved finishing.
- Inverter for the stepless speed adj. from 5 to 25 m/min.
 "T-SET" rapid tool locking device.



dmc sd 60

Wide belt sander

- . The best finish with any material. Higher quality results.
- *Logic SC* electronic programmer, easiliy avoid mistakes.
 Diamond-shaped belt: no slipping of the work pieces.

compact 3 r

Spraying machine

- · Double arm reciprocator.
- Pressurized cabin with double filtration system.
 Lacquer reclaiming unit.





Surface Finishing Solutions

























India-specific solutions from imos AG ix NET. The online sales solution innovative furniture

Imos AG has established itself as a leading provider of software solutions for the Indian manufacturing industry, and its solutions are highly regarded by local manufacturers.

Its iX Scout is a powerful service for manufacturers looking to optimise their production processes and increase efficiency. By providing real-time feedback and insights, iX Scout helps manufacturers identify areas for improvement and make data-driven decisions to improve their operations.

This cloud-based service solution allows for the paperless provision of digital documents for manufacturing and assembly. Professional presentations can be made directly from iX CAD, furniture plans or designs and can be distributed easily and quickly to customers via the cloud

Another major highlight is the release of

iX NET. The online sales solution focuses on innovative furniture and room planning, as well as a new type of configuration option.

Since it is browser-based, kitchens, wardrobes and other furniture can now be planned and sold from wherever the manufacture has his sales. In addition, it even gets directly integrated into the manufacturer's production environment.

Direct integration and iX NET are two key components that have been developed based on specific customer requests in India. With them, imos is providing seamless solutions for the furniture and interior design industries.

Home is where the wood is!

Wood Barn India (established in 2006) brought the concept of wooden homes to India. The company erects pre-fabricated modular wooden structures that are eco-friendly and sustainable.

Their simple, easy-to-assemble designs make it possible for the company to construct even in remotes area and reduce the work

on-site, says Sanjay Sharma, CEO.

"To get this product in India was very difficult because people here are worried about termites and fire hazards. Fortunately, after the Covid-19 pandemic lockdowns, the business has been booming. We have developed 1,000 structures all over India," he says.

"We use Canadian species of wood like SPF, Cedar, Hemlock and Douglas fir.

These come from sustainably managed forests of British Columbia, Canada. Our products are eco-friendly and carbon sequestered," Sanjay informs.

According to Sanjay, for walls Spruce is best; for cladding Hemlock is suitable; for decking yellow cedar or red cedar is apt; and for partition walls Douglas fir does the job best.

"We have built a lot structures on terraces. Since this is dry construction, one does not have to worry about the chaos of mortar, cement and bricks. We also d not disturb the neighbours!" he signs off.



We erect pre-fabricated modular wooden structures that are eco-friendly and sustainable.

- Sanjay Sharma, CEO, Wood Barn India.

82

45 years of high quality adhesives production

We produce EVA and PUR hot melts



Flat Lamination



Edgebanding



Wood Profile wrapping



Aluminium profile wrapping



Made in Italy

Other applications:

Panels production



Veneering



3D technologies





Tools & Equipments Pvt. Ltd.



Surfactant's wood adhesives well received



Surfactant Industries received positive feedback their products, Starke and Richcol adhesives. Starke, which has excellent water resistance in comparison to conventional white-wood adhesives, is already very popular in the Indian OEM market among kitchen furniture and modular manufacturers and exporters.

The product had been developed in close association with Dr. Herbert Eck of Germany, who is the author of more than 100 adhesive-related patents.

The company is run by a professional team of chemical engineers backed with German support.

For further information email sales@ woodadhesives.in or lohiyas@gmail.com.

TopSolid Wood: flexible **CAD-CAM solution**

Fittings, joinery, carpentry depending on the sector of activity, the number and nature of assembly methods vary. Given that these choices are at the heart of all projects, being able to optimise assembly methods is a majorchallengeformanufacturers.

An assembly method describes the connection between two parts. This connection can make it possible to assemble one or more parts in a permanent, removable or adjustable way:

A fixed shelf will be glued and

pinned

- The elements of a box assembled by eccentrics may be removable
- A shelf on cleats will be mobile/ adjustable in its position.

Some assemblies are only made by machining the parts; others incorporate assembly hardware that operate the parts and link them temporarily or permanently (trunnions, screws, eccentrics, Clamex, etc.).

The industrialisation and the choice of these assembly methods depend on several criteria:

- the visual aspect, undoubtedly;
- the physical characteristics to meet the need for the link;
- means of production available in the workshop;
- hardware available and their cost;
- need for standardization and/or customisation.

So many more or less subjective criteria means there is no standard. The choice is left to the company due to its level of requirement. Mastering this concept, therefore, becomes a major challenge and it is important to ensure that your

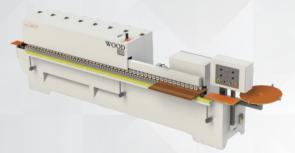




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Delhi Office:

F-14, Vishwakarma Colony, (Opp. Container Deport), M.B. Road, New Delhi - 110044 **Mobile:** +91-98103-73452

Get in touch with us info@woodmasterindia.com, ludhiana@woodmasterindia.com

Website: www.woodmasterindia.com

CAD-CAM solution is capable of responding to this problem.

Depending on the company's assembly methods, you can rely on software that adapts to the way you work. This could result in the possibility of saving time and increasing efficiency.

Thanks to a wide range of highperformance CAD-CAM, PDM and ERP software solutions, you are able to optimise your assembly methods.

With TopSolid Wood, the user describes his requirements and saves them in his library. From the simple positioning rule to the conditional choice, the graphical parameterisation facilitates the creation and verification of assembly methods.

By using these assembly methods, the work of the draftsman is simplified and the designer can concentrate on the project itself, without encumbering connection details, which will be executed automatically by the software.

Within a company, assembly methods can change for many reasons.

- the event technical improvement;
- To optimise production costs, the quantity of hardware used may vary, which will have an impact on assembly methods;
- In the event of a change of hardware supplier;
- Change in production machines and in

the assembly method.

Whether it is a dimensional modification of the project or a change of specification, the associativity of TopSolid Wood will make it possible to replay the assemblies while respecting the conventions of the company. A few clicks are enough to modify one, several or all the links of a layout.



FGV by Hindware highlights kitchen fittings

FGV by Hindware has been selling in India for the last 3 years and participates in major events across the furniture manufacturing and interior design and furnishing sectors. At DelhiWood this year, it hosted more than 1,000 visitors from trade as well as OEM networks across India.

With an Italian manufacturing

core background, FGV by Hindware displayed the most prominent range of products in the kitchen furniture fittings category. The new products launched

Rigo drawer system: the slimmest of the lot at only 1.5 mm

Omnia L hinge range: black finish hinge with linear mounting plates offering 20 years warranty. This is available in a 110-degree opening at all three cranks

Blind hinge (90 & 45 degrees), wide angle hinge with zero protrusion, and ALu profile hinges

The Ten drawer system with a silent and push-to-open mechanism in one drawer with synchronised under-mounted runners.

86



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sleekboardsmarketingservices@gmail.com www.sauerland-spanplatte.de



Total Tools brings Unicol adhesives to your door



available for this application, but the optimal choice is a product like Nunivil specifically formulated veneering to avoid problems of oozing.

NUNIVIL 1006

SETTING TIME AT				
20°C	30 - 40	min		
40°C	10 – 15	min		
60°C	3-4	min		
70°C	2 - 3	min		

UF glue is a well-known adhesive used for veneering. It is a thermosetting resin by combining urea and formaldehyde. To activate the adhesive, two parts of resin are mixed with one part of water.

UF glue is widely used for veneering due to its high bonding strength. The production process typically involves the use of a hot press. It has excellent heat resistance and is commonly used in hightemperature applications.

However, in recent years, there has been a decrease in its usage due to the growing demand for eco-friendly furniture.

Unicol adhesives' range includes glues that are suitable for producing panels in E1 class that can satisfy emission requirement to EN 13986, as Resina 444. In order to get E1 class, the glue quantity should not exceed 100 grams per square metre.

The choice of glue plays a crucial role in the woodworking industry, particularly in attaching veneer to MDF or plywood. Opting for the right type of adhesive is essential to ensure a strong and durable bond.

Veneer glue is used to attach a thin layer, usually with a thickness of 0.6-mm up to 1 mm of veneer on chipboard, MDF, or plywood to enhance its aesthetic appeal. Polyvinyl acetate (PVA) glue and urea formaldehyde (UF) glue are two commonly used types of veneer glues.

PVA glue is a highly versatile adhesive that can be used for pressing veneer onto MDF or plywood using either hot or cold presses. The glue is applied onto the panel using a roller, either manually or with a machine, before the veneer is carefully positioned onto the glued

Once the veneer is in place, pressure is applied using a press, ensuring that the glue makes full contact with the substrate. Once the glue has dried completely, the veneered surface can be sanded and finished to perfection.

RESINA 444

HARDENING TIMES AT				
60°C	14	minutes		
80°C	150	seconds		
100°C	65	seconds		



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Email: guruamarindia@gmail.com Website: www.guruamar.com



Rupes brings high-end polishing, dust extraction



Bigfoot polishing system

Wood working factories working on PU/polyester and epoxy finishes require a flawless finish that is almost impossible from the rotary polishing system. Italian company, Rupes Tools, is known for its Bigfoot random orbital polishing system, unique in the world of polishing.

The company manufactures the complete system consisting of three components, designed to work in combination with each other, the Bigfoot orbital polishers with dual motion: free spin (rotational) and a forced orbital motion.

Rupes demonstrated their polishing system on (PU/ polyester/ epoxy) and introduced its 21-mm random orbital LHR21 Mark III model and the Mille range of filler-free, silicon- and wax-free compounds and the microfiber and wool pads for the DA system.

Rupes also has a light weight rotary polishing system (LH19E along with new cut and finish wool pad) that creates great finishes on the painted panels.

Dust extraction

Rupes centralised dust extraction systems are cost-effective in the long term with a long list of advantages. Industry 4.0 technology has been introduced in the KR2A mobile turbine, the new KS300 - brushless dust extractor, and also in the turbines.

These dust extractors have advanced

features like filter sensors, dust level indicators and a 4.3-inch display to show various parameters like filter efficiency, working hours, requirement of any preventive maintenance, etc.

The optimised system from is a central dust extraction unit, with properly managed terminals to connect the tools, dust-free sanders, help to improve production efficiency.

Turbines can be located outside the building (with adequate protection) or in a compressor room or storage room in the shop to isolate the noise completely. Side channel pumps of 2 HP to 20 HP can be connected to a single turbine to reduce the noise.

Automatic filter cleaning using a jet of centralised high-pressure compressed air (rotor jet filter cleaning system) helps direct and localise cleaning of filters and improve filter life.

Invertor system available adjusts the power in relation to how many vacuum points are opened/ closed on the suction line

Rupes provides free consultation and its trained engineers will design the central dust extraction system along with the 3D rendering for easy installation. The installation and after-sales support are given by trained technicians from Caple Industrial Solutions.





MODENA DOOR SYSTEM

Minimal Modern **Design**

Frame Profiles

Door Jamb Profile

Door Jamb Extender Profile





NMD003 | BG, BK

NMD004 BG, BK

Door Frame Pull Profile

Door Jamb Concealed



Support Profile



NMD006 | MF

Door Profiles

Door Stile Profile

NMD005 | BG, BK



NMD001 | MF

NMD002 | BG, BK

Accessories

Mortise Handle Set for NMD001

Concealed Hinge for Openable Doors





NMDACC003 | BK

NMAXACC008 | BK

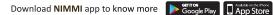
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Show-stoppers from Woodtech

Rapid Drill-612KH

This NC boring centre is a new generation high speed boring centre, having a higher motor capacity of 5.5 kW on the top side and having a higher gripper speed of 140m/Min. This is the highest in this segment.

The machine is versatile and can drill the panels on all six sides. In addition, it can also do drilling on mirroring effects that means, when we place two panels together, it can drill on both panels simultaneously.

This machine has got a barcode scanner which can scan bar code labels to quickly pick program and this machine can work with different kinds of cabinet software. Also, the machine can be connected with other software. It has got an air floating table in the front to avoid scratches on the panel.

Salient features

- Machine scans label to recognise working file, efficiency and intelligence
- · Operating by PC, drawing by CAD, input by CAM, can directly input DXF/MPR/XML working format with easy operation
- With double gripper and long guide rail, gripper speed up to 140m/min, auto-detect holeposition to avoid gripper exchange time. Gripper trip up to 5 meter, big board can work by one time catch, reduces cabinet side board drilling time
- Air floating table and press panel forms air layer at top and bottom of board during working, improving panel



feeding speed and avoiding scratches

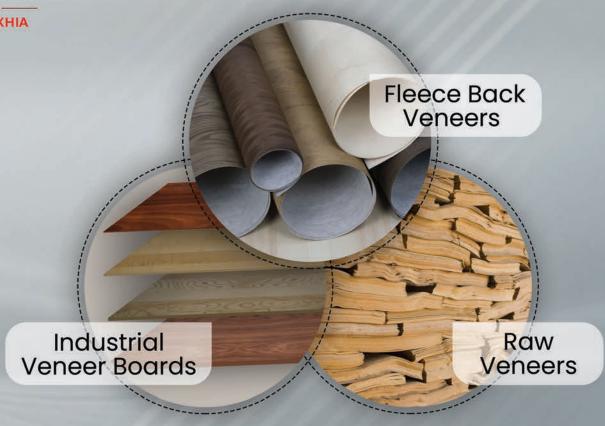
- Press and drilling at same time, ensure drilling precision and efficiency; special drill package position avoids scratches on the panel
- Working model is front-in front-out mode and front in ,back-out mode
- Upper drill pack:12V+8H, Bottom drill pack:9V

Standard machine parameters		
Max Speed (m/min)	:	140/75/30
Min Panel (LxW)	:	70x35 mm
Max Panel (LxW)	:	2,800x1200 mm
Gripper moving speed	:	140m /min
Y/V/B axis max speed	:	75m/min
Z/W/C axis max speed	:	30m/min
Tool quantity Top	:	vertical 12 and horizontal 8
		Bottom; Vertical 9
Panel thickness	:	9~60 mm
Panel width	:	50~1200 mm; 35~50 mm (L≤1,000 mm)
Panel length	:	70~2800 mm
Overall size (LxWxH)	:	5,900x 2,620x 2,190 mm
Dust suction	:	200mmx1 & 100mmx1
Spindle power	:	Top:5.5kW/ Bottom:3.5kW
Saw blade (H)	:	Drill package with saw blade, can
		hogging 50-850 mm straight line groove
Total Power	:	22.65
Working Pressure	:	6 Bar
Country of Origin	:	China

92



ONE STOP SOLUTION



Industrial usage of Veneers is tricky, we make them simple.

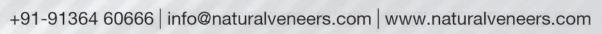
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Rapid Edge 706

This is a fully automatic and flexible edge bander featuring "miniaturisation" equipment. It comes equipped with complete functions that include pre-milling, up gluing, servo-control pressing, pneumatic end-cutting, control trimming, 1mm 2mm switch tracking, servo control scraping, flat scraping and buffing delivers excellent performance.

Salient features

- · The length of machine is only 5.8 metres, effectively saving space.
- Equipped with servo auto adjustment band craft, banding efficiency is improved greatly.
- · Reserved PUR terminal, more flexible.
- High-quality banding intelligent processing to meet customer's needs.
- · Servo adjustment banding craft: It has different auto adjustment units, reducing testing time improve banding effect.
- Auto switch cutter tools: oneclick change craft, intelligent efficiency.
- European Union CE Line Connection Standard: equipment circuit is strictly designed according to CE standard. It's safer to use.
- Dual station auto switch of tracking units: Auto change according to the thickness, double-station edge bands can be alternative.
- PC control: touch screen computer, HMI control, clearfigure display, easy operating.
- information intuitively reflect the fault and troubleshooting through image and text display.
- Heating lamp unit-Starting heating when panel arrives to



position, reducing consumption and production cost, improving edge banding effect.

- Flat scraper to remove excessive glue and improve edging quality.
- Pre milling mechanism, large diameter diamond cutter, total power 20.73kW
- Maximum pre milling height 60mm, milling surface ripple and expansion material, edge bander effect is better.

Milling surface size≥120mm upper gluing system: Rapidly melt glue with 15 min, can switch quickly light & dark colour glue and glue box.

- Pre-melting: quickly pre-melt glue, ensure glue application (can store 5 kg glue) including auto glue adding unit, PUR available.
- Polishing unit- using cotton polishing wheel to clean panel enable it to be

	more smooth and clean.	
Standard machine parameters		
Min. Width of the Panel	95 mm	
Min. Length of the Panel	120 mm	
Min. Thickness of the Panel	10 mm	
Max. Thickness of the Panel	60 mm	
Edge Dimensions in Strips	0.4-3 mm	
Feed Speed	13 m, 15 m, 18 m/minute	
Glue Tank Capacity/glue Motor	1.2 kg+5kg / 1.5 kW	
Glue system	EVA standard (option PUR)	
Heating Power	2.75 kW	
Anti-adhesive Unit	By Pneumatic	
Power of Pre-milling Unit	3.7 kW X 2	
Pre Milling Cutter Standard	Dia 125 x ID30 x H40	
	(Option Dia 125 x ID30 x H65)	
Press system	Four wheel press with double glue scraper	
Pressing mechanism	Auto adjustment with motor	
Power of End Trimming Unit	0.37 kW X 2 Nos	
End Trimming Unit	Top & bottom tilting 2 -15 degrees	
Top & Bottom Trimming Units power	0.75 kW X 2 Nos	
Top & Bottom Trimming mechanism	Auto adjustment with motor	
Power of Corner Trimming Unit	0.30 kW X 2 Nos	
Corner Trimming Unit mechanism	Auto switch to thin tape processing	
Edge Scraping mechanism	Auto adjustment with motor	
Position mechanism	Adjustment by control pad	
Safety door lock	Yes	
Flat Scraping Unit	Pneumatic	
Buffing Unit (2 Motors)with Cloth Disc	0.37 kWX2 & Dia 150 mm	
Conveyor Motor	3.7 kW	
Beam Lifting Motor	0.37 kW	
Suction Hood Dia	100 mmx3 (4"X 2) 125mmx2 (5"x4)	
Suction Air Volume	7000 CMH	
Lubrication type	Self-lubrication system	
Air Consumption	820L/Min	
Clean And Spraying	Pneumatic	
Installed Power	20.93 kW	
Working Pressure	6 Bar	
Gross Weight	2,800 kg	
Net Weight	2,750 kg	
Overall Size (LxWxH)	5,850 X 940 X 1,960 MM	
Voltage	415V/50C/3P	





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WOODNEWS

'India has vast talent, market potential'



The new Managing Director of Hettich India, **Andre Eckholt**, took charge in August 2022. In his career at the leading furniture fittings supplier, he has helmed projects, established factories, and played key roles in project management, production and profit centre operations.

As Managing Director, he has had successful stints in Germany (Hettich Management Services) and the Czech Republic. He also heads the HePo Hub business of the company, comprising of 65 countries, including India, West Asia and Africa. Excerpts from a recent interview with Dhananjay Sardeshpande:

You have had an inspiring innings with Hettich, in engineering as well as in commercial and business leadership roles. What separates the company from its competitors/ peers across various markets?

In its 134 year history the Hettich Group has always been committed to add value to the economy, its people and the entire furniture industry. Hettich has evolved to be a one-stop destination for everything around furniture fittings, always with the target to be a solution factory for every space and in doing so becoming a success driver for our business partners.

Today, the Hettich brand stands not only for quality, innovation, reliability and closeness to customers, but for almost 8,000 people who are living the brand every day. Today we are seen as a lifestyle brand enabling consumers to enjoy day in and day out our magical interior solutions.

Our people-centric approach and the stamp of German engineering quality is

what sets us apart. Our commitment to sustainability and putting it into action throughout our value chain also differentiates us from our peers.

How does Hettich rate India as a market? In what sectors do you see good potential over the next 5 years?

The importance of this market can be gauged from the fact that Hettich is committed to investing as much as Rs 700 crore in setting up our own factories in the country over the next 5 years.

The India market is still pretty much

trade-driven. In parallel the modular kitchen segment and built in appliances is gaining more and more traction. It is also biased in favour of customisation and functionality in the products it chooses. However, the growth of the furniture industry in India holds huge promise.

But it is the kitchen sector that seems to be shining, with an expected high double digit year-on-year growth. Our new, sophisticated sliding door and drawer fittings are also among products that we will be focussing on in coming times.

What are the advantages and challenges in India, in terms of ease of doing business and its commercial prospects?

by the government; and tax benefits or tax holidays to new furniture units, or those undertaking expansion.

These steps would facilitate the coherent growth of the industry and bring foreign technology to India along with huge employment opportunities. We believe that these would be pivotal steps to promote 'Make in India' and 'Skill India' missions, initiatives that have been visualised by the Prime Minister for making in India for the world.

You have successfully managed highly technical projects, such as setting **Vadodara** up the manufacturing plant in India in 2014. What are your key takeaways from that experience?



Hettich is committed to investing as much as Rs 700 crore in setting up our factories in India over the next 5 years.

Andre Eckholt, MD, Hettich India



The furniture manufacturing and interiors sectors in India is partially still led by unorganised carpenters and contractors. So it becomes a challenge to reach out to them for awareness, education and skilling.

On the plus side, India is a big market that is hungry for more - more opportunities, more challenges, more ventures! India stands on the cusp of becoming an economic powerhouse whose clout will spread far and wide.

However, we anticipate a few initiatives from the government in the upcoming years for the growth and support of the furniture industry. These formalising the guidelines for the production-linked incentive (PLI) scheme for manufacturers of furniture and its parts; notification of the incentives on the export of furniture fittings as introduced in Finance Act 2022; subsidies to units set up in furniture parks or areas as notified

The Vadodara factory was a green-field project for Hettich. Apart from the construction of the physical infrastructure, we had to train engineers and plant operators in core technologies - wire and bending, cutting, welding, electroplating, etc. We also had to establish the Hettich ethos implement quality standards that apply to all our products worldwide.

That said, I must say that India has a vast reservoir of talented, trained and highly qualified engineers - including in the information technology sector. They are very motivated and hungry for new challenges and progress!

What are the professional and personal takeaways from your stints in vastly different socio-cultural milieus: Germany, the Czech Republic, West Asia, Africa and India?

I have worked in markets with GDPs as varied as US\$ 1,200 to US\$ 116,000. There are changes in people's lifestyles and our product offerings focus on these variations in these markets. There is, of course, a multiplicity of cuisines, cultures and people in all my assignments; but I have enjoyed being a part of them!

In the light of the recent disruptions on account of the Covid-19 pandemic, how has sourcing and supply chain management changed?

As for any commercial venture, the disruptions exposed the chinks in extended supply chains. At Hettich we now focus on value addition and making the supply chain more resilient.

If you had one piece of advice for the stakeholders in the furniture and interiors sectors, what would it be?

Hettich is in the India market because of the huge potential for growth, not only in our business, but also in the 'Make in India' mission. With our factories in Vadodara (Gujarat) and Indore (Madhya Pradesh), Hettich is already doing that. We are also exporting to many other markets worldwide. We wish to partner with India in this direction. towards self-sufficiency becoming a manufacturing and export hub, without compromising on the global Hettich quality and compliance standards.

What are your hobbies? What is your relaxation mantra?

I am basically a team player who loves the challenge and who loves to connect with people from any cultural background. I like to explore unknown territory and learn from my new environment to become better day by day. Sports and travelling helps me interact, compete and relax in several ways.

WOODNEWS

Trading with grading



What are the grading rules for American black cherry?

The National Hardwood Lumber Association (NHLA) grading rules for American black cherry fall into the category of a standard inspection. When NHLA Standard Inspection is referred to, the hardwood species is graded in accordance with the standard grades of the NHLA.

It is important to note for cherry there are several characteristics that are inherent to the species and are not considered defects. Notably, gum streaks and spots are admitted without limit and small 1/8th inch (3.18 mm) pin knots are admitted in the clear-cuttings as well.

Sapwood is not considered a defect according to the standard grades. A buyer and his supplier can add their own restrictions as to the amount of sapwood allowed in cherry, but this is an exception to the standard grades and must be spelt out in the contract for the shipment.

In your last article, you talked about an 80/20 mix for the FAS/ FAS1 Face grades. Is there a rule for what percentage must be included in a shipment?

No, there is no rule dictating what

percentage of a shipment of uppers needs to be FAS versus the grades of Selects or FAS1 Face.

Often export shipments are assembled with an 80-20 mix, which has led to some confusion for the overseas buyer. What is important to note is that these percentages are strictly left to individual buyer and seller agreement.

Just like the buyer and seller agreeing to a sapwood limit in cherry, these percentages are not dictated by the NHLA rules. They simply give scope for flexibility within the rules and allow for a degree of competition from one supplier to the next.





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I placed an order with a new supplier for FAS white ash and received a large percentage of the shipment that was brown. The supplier is telling me that this is on grade and that if I wanted white (all sapwood) boards, I should have specified this in the contract. What can I do about this?

Unfortunately for you, your supplier is correct. White ash is a species of hardwood, where the heartwood (the centre of the log) is brown. The NHLA grading rules for ash all come under standard inspection. So, if you wanted to receive 'white or sapwood' boards, it should have been written into the contract as an exception to the standard grades.

I read in AHEC's 'A Guide to Sustainable American Hardwoods' that, to qualify for FAS, a board must be at least 6 inches (15.24 cm) wide. However, I always receive boards that are less than this. Is AHEC's guide different to the NHLA rules, or am I missing something?

AHEC's publication is the NHLA rules in a condensed version. What the chart on the back page is referring to is the Green Standard grades; i.e. measurement before kiln-drying.

When hardwoods are kiln-dried, it is acceptable for all the boards in a shipment to be ½ inch (6.35 mm) narrower (5½ inches) and for a small percentage to be up to ½ inch (12.7 mm) narrower (5½ inches).

This does not change the percentage of clear cuttings required to make the grade; it simply recognises that green lumber will shrink in the kilndrying process.

Can you please remind me how each board is measured?

Each piece of lumber is measured for its width and length in

determining the grade. The width is measured in inches. The length is measured in feet.

When recording a board for sale, the widths are rounded to the nearest whole inch – thus 5½ inches is tallied as 5 inches and 5¾ inches is tallied as 6 inches. If the board falls exactly on the half-inch, the rule is to alternate fairly between rounding up and rounding down.

Lengths are always rounded down to the whole foot. Therefore, a 10-foot-4-inch board is tallied as a 10-foot board and a 10-foot-10-inch board is also tallied as a 10-foot board. In other words, a board is not 11 feet long until it is 11 feet long!

We occasionally receive American tulipwood with large areas of purple-coloured wood. I must admit that I, personally, like it; but it drives our finishers mad. What is this and can I order tulipwood without it?

The purple colour you are referring to is a natural mineral inherent in tulipwood. In the upper grades, it is limited to twice the length in inches by the full width of the board.

For example, an FAS board 6 inches wide and 8 feet long would be allowed to have a combined total of 16 inches by the full width of the board and still be considered for the FAS grade.

This purple colour is not limited to the

Common grades. Having reviewed the rules, I would suggest that you ask your supplier to leave these boards out of your shipments if you are buying uppers and limit them to outside the clear-cutting areas on the No. 1 Common grade.

Typically, this purple-coloured mineral is isolated, and it should not be too much of a problem for your supplier to mark it as a lower grade.

Why are species such as cottonwood, tulipwood and basswood considered hardwoods when, on the contrary, they are relatively soft? Isn't this somehow deceptive?

The terms hardwood and softwood were never meant to be used to describe the 'hardness' of a particular wood species. They are strictly used to classify whether the tree is a deciduous, broadleaf (hardwoods) or a coniferous tree with needle-like leaves (softwoods).

In general, when looking at wood usage in the US, where timber-frame construction is the norm, we build the house out of softwoods (joists and framing) and we furnish the house with hardwoods (flooring and cabinetry).

If you have a question regarding the rules for grading American hardwood lumber, or if there is any other topic you would like to see in future articles on hardwoods from the US, write to india@americanhardwood.org.







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APARNA SHINDE

The development of electric power tools, such as saws and drills, has gone hand in hand with the advancement of wood product manufacturing. These tools have made many everyday carpentry tasks much simpler.

Among these traditional equipment are lathes, chisels, and saws which are essential for shaping and crafting timber. However, efficiency in woodworking has been enhanced with the use of pneumatic tools

and the best air compressor for woodworking.

Compressed air is utilised in a variety of tasks in the woodworking process, including nailing or framing wood, finishing and sanding, blowing away excess sawdust, and even starting the painting process.

Both, large carpenter's workshops and smaller businesses, utilise compressed air throughout the entire woodworking process, including cutting, drying and finishing activities such as sand-blasting, grinding, painting, sawdust removal, and operating pneumatic tools or large machinery.

Energy savings

Due to the significant electrical consumption associated with using compressed air on a large scale, it is crucial for the woodworking industry to rely on compressors that can ensure maximum energy savings.

Furthermore, the most significant challenge faced by the woodworking industry is air contamination caused by

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Clean, compressed air is especially important when sand-blasting, grinding and painting or coating.

dust and wood residues. This is particularly critical for processes such as painting, which require extremely clean air.

Furniture industry compressors compress the air they draw in from the environment, so they must have a high-performance filtering system to prevent damage to the machine's operation and the finished product.

There are many applications of compressed air for woodworking industry, so it is important to choose the right woodworking air compressor.

Why compressed air?

Did you know compressed air is viewed as the fourth utility? Of course, we all probably use the first three in our daily lives: water, electricity and gas. One of the most important reasons for using air compression instead of electricity is safety.

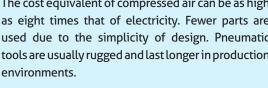
In applications where equipment is overloaded, electrical equipment poses a safety hazard. Electrical shocks or fire may occur, damaging property or injuring personnel. Compressed air and pneumatic tools can be used under many conditions, such as on wet floors or in high-humidity areas.

Compressed air is more flexible and is easier to use in remote areas like mines and construction sites. Air-driven tools run cooler and have the advantage of variable speed and torque.

Tools powered by compressed air are also more light in weight. They can be manufactured with materials that make them light and more ergonomic; thus

> balancing the cost of air with the cost of labour due to reduced worker fatigue.

> The cost equivalent of compressed air can be as high as eight times that of electricity. Fewer parts are used due to the simplicity of design. Pneumatic tools are usually rugged and last longer in production



Consider the factors below to ensure you choose the right equipment:

Air pressure

Air pressure is measured in pounds per square inch (PSI) and refers to the amount of compressed



This 7-kW air compressor with dryer from Atlas Copco is among a range of solutions that are ideal for workshops, body shops and light industrial users.

air that the compressor can produce. While most tools run at a maximum of 90 PSI, it is wise to choose a compressor that can produce more than that, as the air pressure will drop as it is being used.

A general guideline is to select a compressor with at least 35% more PSI than what is required for the tool, which amounts to around 120 PSI. This ensures that the pressure remains consistent throughout the operation of the tool(s).

Air flow

The output of a compressor can also be measured by the volume of air it produces per minute, known as cubic feet per minute (CFM). It is important to have a sufficient volume of air for tools to operate at peak efficiency; insufficient air can lead to poor tool performance.

Moreover, when high-demand tools are operated with a compressor having a low CFM rating, the compressor may need to run more frequently, resulting in faster wear and shorter pump life.

Therefore, selecting a compressor with an appropriate CFM rating is crucial for maintaining optimal tool performance and compressor longevity.

Storage capacity

Along with PSI and CFM, the size of the buffer tank/ air receiver is also an important consideration when selecting a compressor. The tank size determines the amount of compressed air that can be stored in it.

A larger tank means more compressed air is available for the tool(s) to use. A smaller tank would require the compressor motor to work harder to meet the compressed air demand.

With a larger tank, the motor will not have to run as frequently. Herein, optimal size of the air receiver is to be chosen to meet the application demand and to run the compressor efficiently.

Noise levels

Noise levels of compressors vary based on the technology used for compression. Reciprocating/piston compressors are generally louder than rotary screw compressors.

Atlas Copco has been providing the woodworking industry with dependable woodworking air compressors for many years, tailored to the requirements and conditions of sawmills, wood shops and furniture makers.

As a provider of solutions, Atlas Copco has developed various air compressors with the unique difficulties faced in wood processing and manufacturing facilities in mind. For more information, write to info.compressor@ atlascopco.com



 The writer is Business Marketing Manager (Industrial Air Division: Compressor Technique) at Pune-based Atlas Copco India Ltd.



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Decoding coatings, with Giardina

WoodNews recently visited the new Experience Centre of Giardina Finishing. Excerpts from a conversation with **Vinit Bhatia**, CEO of Giardina India and Vinpack Systems:



The 42,000-square-foot Experience Centre in Bengaluru has spray lines, roller coating lines, complete finishing solutions and logistics systems, for customers to see and experience.

Wood is a highly versatile and renewable material that has been used for centuries in a wide variety of applications. From furniture to flooring, from construction to decorative objects, wood offers a natural and aesthetic appeal that cannot be matched by other materials.

However, wood is also susceptible to degradation due to exposure to various environmental factors such as moisture, sunlight and temperature fluctuations. To mitigate these effects, wood

coatings have been developed that not only protect the wood but also enhance its appearance and durability.

PU paint

Polyurethane (PU) paint is a type of coating used in a variety of applications, including automobiles, furniture and industrial equipment. PU paint is known for its durability, chemical resistance, and ability to provide a glossy, smooth finish.

The process of applying PU paint typically involves several steps, including surface preparation, mixing and application of the paint, and curing.

The process of applying PU paint involves several critical steps, including surface preparation, mixing and application of the paint, and curing. Proper surface preparation is essential for ensuring proper adhesion of the paint and a smooth, even finish.

Mixing and application of the paint must be done carefully to ensure proper coverage and adhesion, and the paint must be allowed to cure properly for maximum hardness and durability.

By following these steps, it is possible to achieve a high-quality finish with PU paint that will provide long-lasting protection and enhance the appearance of the painted object.

Water-based coatings

Unlike traditional solvent-based coatings, water-based coatings are formulated with water as the primary solvent, making them a more environment-friendly option. Water-based wood coatings are a type of coating that is designed to protect and enhance the appearance of wooden surfaces.

Water-based coatings are available in a variety of formulations, including lacquers, varnishes, stains and paints. They are commonly used for finishing furniture, flooring, cabinetry and other wooden surfaces in both residential and commercial settings.

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The finishing lines for assembled frames are developed to finish doors, windows and modules hanging from an overhead conveyor. They can be designed with manual spray stations, automatic spray stations with reciprocators or vertical robots, flow coating and hot air drying systems, selected microwave ovens according to the characteristics of the product and the items to be processed.

water-based coatings is their low VOC (volatile organic compounds) VOCs are harmful chemicals that are released into the air as the coating dries, which can be harmful to both human

health and the environment.

By using water as the primary solvent, water-based coatings significantly reduce the amount of VOCs released into the air during the coating process. They also have a lower odour, making them a more pleasant option for indoor applications.

Water-based coatings also offer excellent adhesion and durability, making them suitable for use in high-traffic areas. They are resistant to scratches, stains and other types of damage, which helps to prolong the life of the coated surface.

Water-based coatings also offer excellent ultra-violet (UV) ray resistance, which helps to prevent fading and discolouration over time.



Acrylic-based coatings

Acrylic-based wood coatings are available in a variety of formulations, including paints, stains and clear coatings. They are commonly used for finishing furniture, flooring, cabinetry and other wooden surfaces in both residential and commercial settings.

One of the main advantages of acrylic wood-based coatings is their excellent adhesion and durability. Acrylic resins have a strong affinity for wood surfaces, which allows them to form a strong bond and provides excellent protection against scratches, stains and other types of

They also have excellent resistance to UV light, which helps to prevent fading and discolouration over time.

Acrylic-based wood coatings also offer several other advantages over traditional solvent-based coatings. They have a low VOC (volatile organic compounds) content, which makes them a more environment-friendly option. They also

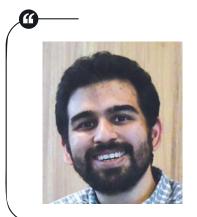
have a lower odour than solvent-based coatings, which makes them a more pleasant option for indoor applications.

UV-based coatings

UV-based wood coatings are a type of coating that is cured using ultra-violet light. These coatings are designed to protect and enhance the appearance of wooden surfaces, while also providing excellent durability and resistance to scratches, stains and other types of damage.

One of the main advantages of UV-based wood coatings is their quick curing time. Unlike traditional solvent-based coatings, which may require several hours or even days to cure, UV-based coatings can be cured in a matter of minutes. This reduces the amount of time required for the coating process and allows for faster production times.

UV-based coatings also offer excellent adhesion and durability, making them suitable for use in high-traffic areas. They are resistant to scratches, stains and other



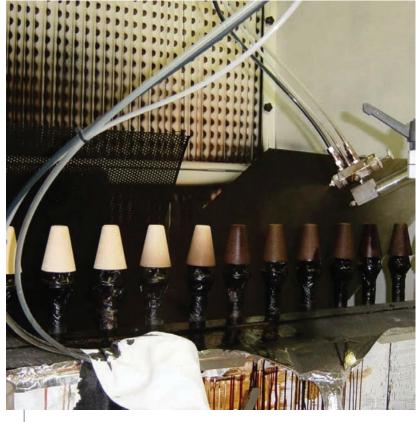
Giardina Finishing is often referred to as 'the Ferrari' of coating, alluding to its ability to come up with tailored-made solutions, specific for each customer.

Vinit Bhatia, CEO, Giardina India

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The installations for turned parts built by Giardina meet the needs of different components: curtain rods, chairs, knobs, handles, small parts in plastic, glass, metal and composite materials.

types of damage, which helps to prolong the life of the coated surface.

UV-based coatings also offer excellent UV resistance, which helps to prevent fading and discolouration over time. In addition, they have lower VOC content and low odour.

Preparing surfaces

Preparing and ensuring only the best surface as a base for these coatings is the

golden rule when it comes to any application of coatings on a surface. Remember that if we use high-quality products the output will always be the best possible.

With proper surface preparation and application, any wood wood-based coatings can provide a long-lasting finish that enhances the natural beauty of the wood while protecting against scratches, stains and other types of damage.

This typically involves sanding the surface to ensure proper adhesion, as well as cleaning the surface to remove any dirt, grease or other contaminants. Any woodbased coatings can be applied using a variety of methods, including spraying, brushing or rolling. The coating should be applied in thin, even coats to ensure proper coverage and adhesion.

Depending on the specific application, multiple coats of coating may be required to achieve the desired finish. Most coatings offer from 5% to 90%+ gloss levels, ensuring a variety of finishes that suit any space or application.

Many applications

The roller coating line currently does high gloss and matte finishes for different suppliers, including ICA, Renner and Sherwin-Williams. The spraying line allows for the painting of

The many coating and finishing options that can be produced from Giardina's machines.





curved parts, edges or shaped elements that are not suitable for UV roller line coating/painting.

A pressurised painting booth allows painting of panel of any size or shape that is unable to be done on either the roller line or spraying line. This can also be used for custom job work/designs requiring more detailing or hand-crafted paint finishing. To this end, this processing completes all possible types of elements at 360 degrees.

UV coating can produce transparent or lacquered glossy or opaque finishes, as well as glossy metallic and transparent and lacquered embossed finishes. "A new line of lacquers and UV inks allow us to comply with the most restrictive market demands," Vinit points out.

The high-end digital printing line allows for customised jobs to be done on wood, acrylic or glass.

The hot air ovens for doors and windows are normally used in combination with the manual, Air Green spray or CS spray painting systems, or with the use of vertical robots, vertical reciprocators and flow coating.

Experience centre

Giardina India, together with its partner, Vinpack Systems (packaging machinery materials and tools), launched the Giardina India Experience Center as a 'one-stop shop' for finishing solutions, with sales, service, spare parts and technical assistance.

The 'state-of-the-art' facility provides builders, wood product manufacturers and furniture makers the ability to provide their clients with European quality finishes in an affordable and time-saving method.

"Italy-based Giardina Finishing is often referred to as 'the Ferrari', alluding to its ability to come up with tailored-made solutions, specific for each customer," says Vinit.

The 42,000-square-foot facility has spray lines, roller coating lines, complete finishing solutions and logistics systems, for customers to see and experience its complete offerings for India, Sri Lanka, Bangladesh and surrounding regions.

In addition, a 10,000-square-foot warehouse ensures that spare parts are available locally and at reduced service cost.

Located in Kumbalgodu Industrial Area, Kengeri, the centre is strategically located to provide great connectivity to the surrounding states of Tamil Nadu, Kerala, Andhra Pradesh, Telangana, Maharashtra and Goa.

Asked about his future plans, Vinit confidently says, "We plan to launch the India Finishing School, where we will conduct training and teach the nuances of great finishing on wood, glass and acrylic."

For more information, write to sales@giardina.in.



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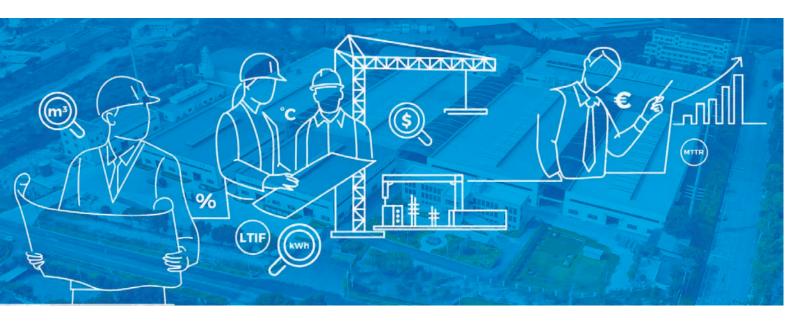
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WOODNEWS

112

How factory audits help optimise production



PEKKA JUUTISTENAHO

Mill audits are made to keep you on track at every point of production. Audits provide you with valuable business data and knowledge that lead to detailed production improvement.

Let's picture a scenario: The business development unit has come to the crossroads of how to improve the mill's operation in the growing and highly competitive wood product production market.

They know that to answer the

competition they need to produce more products, more efficiently, or cut costs. But they don't know how to do that, or where to start. This is the moment to contact a trusted, experienced expert.

The situation might be as described, or the mill's representative just wants an external valuation of how the production in the mill works, and if they can find something to improve. This is where the mill audit starts.

There's usually a valid reason to audit. It might be changing circumstances in the

business, raw material deliveries, or the producer wanting to increase the endproduct's value.

Many factors

A mill audit done by an external expert is the most objective way to gain information that affects the business and helps with the right business choices. Recent times have shown that rapid changes in the world majorly affect veneer production globally.

The changes have led the producers to consider how the products can be sold

despite increased production costs, and they won't get the price needed per product. This has led to seeking enhancement actions to the cost structure.

A mill audit considers various factors that are affecting production efficiency entirely. A mill audit goes through raw material usage, workforce efficiency and automation, lowering the production costs and more, aiming to make suggestions on how to lower the total costs.

The same applies when the producer wants to increase the processing value of the product. The audit seeks and finds ways to make the product more profitable and better, improving the producer's position in the market.

Key metrics

Information gathering is a key metric for a successful mill audit. A typical mill audit takes five business days at the client's mill site. During the auditing days, the whole production process is inspected thoroughly – from acquiring the raw material to the client's client.

Not only are the raw material and product audited but the local conditions, staff, infrastructure and logistics are also taken into consideration. During the auditing days, the experts gain information on the business key performance indicators, reporting systems and practices. Every variable affects the result.

The mill audit report consists of the expert opinion based on the information gathered during the audit, documentation, and interviews with the managing personnel and the employees.

The report is a thorough tool to make corrective or optimising decisions. Based on the audit and the objective expert take on the business, the client can make the best solutions possible to enhance their production processes in the short and long run.

A mill audit always aims to optimise production, process, business, or objectively search for solutions to difficulties or changing situations. The audit acts as a fundamental tool for business development and budgeting.

The objective external findings are a base for the management team to make enhancive production changes – the outcome is not just an opinion but an expert view of the complete case. This view is something to firmly rely on.



- The writer is an engineer with more than 40 years experience and extensive background knowledge in the plywood industry. Prior to joining Raute he worked in numerous roles at the Metsä Wood mills.

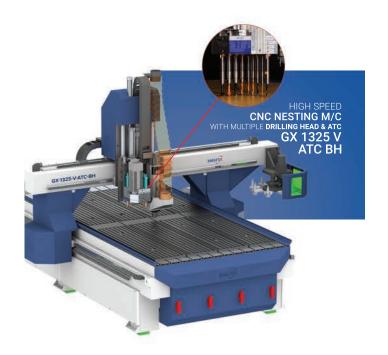


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Energy management helps save resources

In light of increasing energy costs stricter environmental regulations, significant reductions must be made in industrial production resource consumption.

Dürr's ISO 50001-certified energy management solution can help DXQenergy. plant provides management operators with a transparent overview of energy and media consumption across the entire production plant, making it possible to quickly identify primary consumers at the plant level.

What are a production plant's electricity consumption trends? How much solvent does each work piece require? Is there a noticeable increase in water consumption?

Plant operators need answers to these and many other questions - especially in energy-intensive sectors manufacturing to reduce energy consumption, CO2 emissions, operating costs.

DXQenergy.management transparently displays the necessary data to the user in clearly arranged dashboards. Various views are available to quickly see relevant gas, electricity, water, paint, or solvent consumption for the entire plant or select areas like individual process lines.

Thus, the production plant's different user groups get information with the precise level of detail they need.

Key figures

Dürr's energy management solution continuously monitors the data recorded by the linked sensors and saves this data in a central location. However, pure consumption values like robot electricity consumption are of limited use for analysing and optimising the energy efficiency of machines and processes.

DXQenergy.management combines consumption and production values to provide insightful key figures like electricity consumption per produced

The central consumption cockpit with individual gauge as appropriate to the type of energy and medium allows plant operators to comprehensively evaluate the measurement infrastructure's data.

DXQenergy.management transparently displays the necessary data in clearly arranged dashboards.



Homag is already using the software at its Schopfloch site.



For example, hot water can be displayed in litres to compare consumption during different periods. Current consumption value can also be compared with an earlier one, or a defined nominal value.

Alternatively, hot water can be specified in kilo-Watt hours to represent the energy required for heating. The following applies to all relevant consumption figures. They can be represented in various units and for different periods for each type of medium and each process area up to the sensor level.

Thus, users can see if everything is running in the green zone or if one specific consumption item is too high, as signalled by a red indicator.

They can then quickly identify the primary consumers at the plant level and, thanks to the detailed evaluation, analyse down to the individual sensor where exactly plant resources are being wasted.

Efficient switching

Automatically switching off all systems along the entire process chain reduces energy consumption and manual effort. This function stores operational work time models so that the machines switch on automatically in good time before work begins, are scaled down during break times and are reliably switched off at the end of the workday.

Manual intervention is still possible if unplanned changes occur.

DXQenergy.management is suitable for all industry sectors and can be retrofitted to existing plants with network-compatible sensors. Homag, one of the world's leading providers of integrated production solutions in the woodworking industry and trades, is already using the software at its Schopfloch site.

The energy management solution has also completed TÜV certification there, according to ISO 50001. For more information, write to kabilan@durrindia.com.



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Canadian SPF a healthier option



Forestry Innovation Consulting India (Canadian Wood) promotes British Columbian species as a sustainable alternative to conventional hardwoods within India's furniture industry and works closely with regional designers and producers.

As a result of one such collaboration, FII India started collaborating with Bramola Furniture, a high-end furniture manufacturer based in Delhi, in 2020.

The company recently recommended spruce-pine-fir (SPF) as a sustainable, affordable

substitute to teak wood for furniture applications within a senior living and wellness project called Eden Senior Living and Wellness.

The two 10-storey buildings that will make up the Eden Senior Living and Wellness project in Dehradun will have 107 apartments in total. It was completed in December 2022, and serves seniors seeking a more laid-back lifestyle with an emphasis on wellness and preventive care.

The project's concept was drawn from European ideas about how older people should live, and the clientele were from comparable strata of society. Because of this, Bramola could introduce furniture in The designer and developer used SPF because the material is a light, soft wood, which makes it easy for the elderly to move around.

the Scandinavian and neo-classical styles, both with distressed finishes, to apply cutting-edge interior design concepts.

Instead of using local Sheesham or non-PEFC-certified teak from Africa, the project improved its sustainability credentials by using PEFC-certified timber from British Columbia, Canada.

The designer and developer decided to utilise SPF furniture in the project display unit after being impressed by the material's exceptional strength-to-weight ratio. SPF is a light, soft wood, which

makes it easy for the elderly to move around.

Throughout the project, the FII India team offered technical support and direction to aid in acquainting the design and development teams with the viability of Canadian SPF.

The showcase unit's furnishings, which included beds, dining tables, bookcases, side tables, and closets, were all made out

of SPF. The furniture has received overwhelmingly positive feedback, and Bramola has already begun to receive more orders as clients are also interested in using wood from Canadian Wood for upcoming projects.

Modern architects, designers, and clients prefer to employ aesthetically pleasing and ecologically beneficial materials for their building projects. This project serves

as a superb example of how Canadian wood creates incredible design concepts and a sustainable way of living.

The furniture is designed in the Scandinavian and neo-Classical styles, both with distressed finishes.





FORM IV (See Rule 8) WOODNEWS

Statement of ownership and other particulars about WOODNEWS bi-monthly magazine as required by Registrar of Newspapers for India (Central) Rules, 1956:

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6. Name & Address of Individuals who own the newspaper and partners of shareholders holding more than 1 per cent of the total capital:

Name	Address	Position
Pradeep Devaiah	No.32/2, 'PDA House', Spencer Road, Frazer Town, Bangalore - 560005	Chairman

I, Pradeep Devaiah, hereby declare that the particulars given are true to the best of my knowledge and belief.

Date: 23 March, 2023 Signature:

FR doors takes safety to the next level





Custom Designed Doors

Fire is a threat to any type of property, be it commercial, residential or industrial. Apart from standard fire detection equipment, such as fire alarms and smoke detectors, fire-rated doors are also highly recommended.

A wooden fire-rated door will help protect the premises and ensure that fire doesn't spread. It is specifically designed to withstand raging fires for a stipulated time frame. These doors can prevent the spread of fire to nearby unaffected areas and give enough time for the emergency services to put out the fire.

Anisha Arjun Hardasani Doors (AAH Doors) manufactures wooden fire-rated doors that conform to IS-3614 (Part II) and BS-476 (Part 20-22). These doors give the consumers the advantage of a hi-tech product offering, and aesthetics to match in comparison to metal doors, which are limited to certain appearances.

The doors range from 60-minute to 120-minute fire rating and are insulated with mineral wool, which helps the door maintain ambient temperature on the non-fire side of the door.

The doors have intumescent seals on all sides. In the eventuality of fire, as the temperature begins to rise, these seals expand and act as a barrier, preventing the egress of smoke and harmful hazardous toxic fumes in the air.

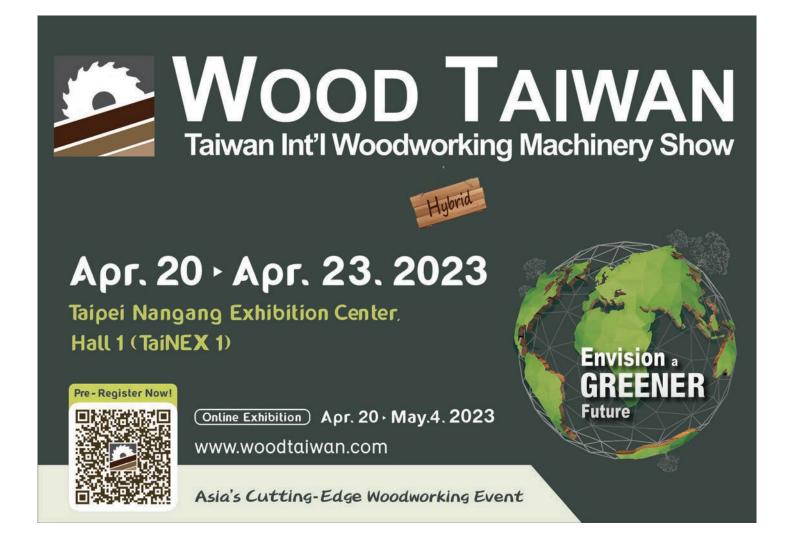
This helps prevent loss of life as these fumes are highly inflammable and life-threatening in a raging fire.

AAH wooden fire-rated doors have a finishing surface with over 2,000 shades of laminates, or veneer, or fire-rated paint which gives the consumer far more choices and colour selections over metal doors.

There is no skin peeling or corrosion in these doors, which is often seen as a concern in metal fire-rated doors. The company also provide fire-rated hardware and installation services to its clients.

Other than their ability to withstand extreme temperatures, fire-rated doors are tested for their resistance threshold. These doors help block or delay the spread of heat, smoke and flames through hallways, stairwells and other sections of the building.

For further information, contact Anisha Hardasani anishaahardasani@gmail.com, or check out https://anishadoors.com/



WOODNEWS

Jai's Optimus range ensures seamless operations

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

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

The Optimus series comprise a range of solid wood machinery in the premium segment and have high-end features that are specially developed for units engaged in solid wood-craft business.



The **OptiBore 6.12** is a multiside boring CNC processing machine for routing and grooving. It can finishes six sides boring and top/bottom routing or grooving operation in one time, in full automatic mode.

Salient Features

- Sturdy built heavy-duty machine to suit Indian working condition for precise boring and routing application.
- High performance machine with high-feeding speed gives more production.

- Equipped with Syntec control system with Bar Code Reader and integrated CAM software that can edit image of the work pieces and generating NC program directly for processing.
- Auto Clamping & feeding device. Auto side aligner position the board from the side tightly to ensure precise gripping.
- Air floating table to avoid scratches on board and assuring smooth board movement, suitable for heavy and big panels.

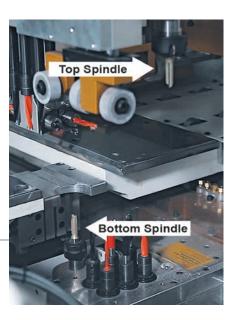
Top and bottom router spindle 2 x 3.5kw (5 HP), 18,000 rpm Cutting, routing and top-bottom grooving process on panel.



Precision top drilling unit
Vertical: 7 (X axis) + 5 (Y axis)
Top vertical drilling bits process top side
vertical holes on panel.
Horizontal: 2 (Left) + 2 (Right) and 2
(Front) + 2 (Back)
Horizontal drilling bits process four side



Precision bottom drilling unit Vertical: 9 Bottom vertical drilling bits process bottom side vertical holes on panel





The OptiSaw 3.2 panel saw is a sturdily built, heavy-duty machine that gives precise, burr-free cuts. It has a havy-duty, top-quality precision sliding table with long lasting accuracy.

Salient Features

- accessible, Easyily userfriendly control panel with electronic digital read-out of saw unit tilting.
- Motorised up-down movement of saw unit from control panel and tilting movement of saw unit by means of hand wheel.
- Vertical movement of the saw unit is linear with maintenancefree guide bearings allow the

quaranteeing absolute precision.

Hollow multi-chamber aluminum

extrusion quarantees optimal

torsion resistance and rigidity.

whole unit to move easily.

- Easier and quicker scoring unit updown movement and lateral adjustment.
- Rip fence cutting width up to 1,250 mm with fine adjustment.
- Central lubrication system circulates lubrication to the required parts of the machine, ensures efficient operation and increase life of parts.
- All electronic and pneumatic parts are from well-known international brands.
- available cost effective spares, best after sales service support. It comes with a 10-year warranty on the sliding table.

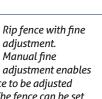


Optional: Digital read-out (DRO-F) DRO that displays the job length digitally. This enables a setting precision accuracy of +/- 0.1 mm.



Heavy-duty precision sliding Smooth-running and powerful saw table runs on large rollers, sandwiched between hardunit It is a powerhouse produced with the chromed guide bars,

latest manufacturing technology. The high-precision vertical movement of the unit is linear with maintenancefree guide bearings and allows the whole units to tilt easily and precisely to exactly the correct angle.



the rip fence to be adjusted precisely. The fence can be set with pin-point precision by means of the adjusting screw. Extra support for wider work

piece

Equipped for high output with ease and speed. Cross-cutting of very thick plastic is also possible.

Typical application such as sizing, straight line and rip cutting. Mitre cuts of solid wood can be carried out efficiently and precisely.



The sturdy frame provides a rigid support for all cutting with telescopic cross-cut fence with aluminium guides for precise and easy positioned. Also panels to be squared and cuts at an angle up-to 45° on both sides of the table.



Easy and fast saw-scoring blade changing. Easy scoring adjustment from the front . Entire saw unit on



Optional: Digital read-out (DRO-R)



Two new topcoats from Sherwin-Williams



Sherwin-Williams has introduced two innovative coating solutions for the wood-based furniture industry. The new SM4042 is an acrylic-polyurethane solvent-based topcoat with uniform matte 5 gloss at all angles, excellent aesthetic characteristics in terms of smoothness to the touch and high wetting capability.

This clear topcoat has been developed to exalt the pores and to ensure a very good anti-scratch effect. In terms of physical performance, this topcoat ensures excellent heat (rank 5/5 according to UNI EN 12721 and 12722) and chemical resistance mainly to coffee, alcohol, acetone and ammonia (ranking 5/5 according to CEN/TS 16209).

It is also protected against the yellowing effect from UV rays. It comes recommended for application on acrylic basecoats, but it can be also used as self-

sealer, overcoating itself on two layers.

The 'Velvet Shield' is the SM4003, an innovative high-performance super-matt topcoat. Its formulation ensures modern super-matt surfaces, soft touch feel, high resistance and an anti-fingerprint effect.

Applicable by spray in a single coat on solvent basecoats or directly on melamine

paper, SM4003 is compatible with the company's Tintometric system, ensuring ease of use and outstanding hiding power.

Durability of the surface is guaranteed by its repairability properties, which allow easy removal scratches with the simple use of alcohol or ethanol.

SM4003 broadens Sherwin-Williams' offer of premium quality matt products representing an excellent alternative to technologies such as excimer or plastic foil, with respect to which its use is more productive and flexible.

It can be easily applied and cured as a standard SB product to many types of surfaces, even in three dimensions.



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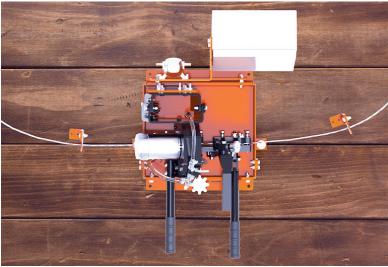


Making more out of wood



Wood-Mizer devises 2-in-1 blade maintenance device





By joining two blade maintenance operations in one machine, Wood-Mizer has come forward with a smart solution for saw millers who want to take care of their saw blades by themselves.

The BMST50 is a combo device that sharpens and sets efficiently and inexpensively. In addition, it is a space-saver in a workshop as it requires only a table or bench to work on.

The BMST50 blade sharpener and setter, or Sharp'n'Set device, is a two-in-one machine designed for performing blade maintenance operations. It is a perfect solution for low-volume saw millers as it allows them to maintain their blades independently and inexpensively.

The user works the machine with two levers: one for moving the sawmill blade forward and the other for grinding or setting the teeth. Switching the device configuration between sharpening and setting is quick and simple.

The BMST50 is compatible with most 32-mm-wide sawmill blade profiles that Wood-Mizer offers. It is fitted with blade support brackets which secure the blade during sharpening.

The operator can also adjust the pressure applied onto the blade as well as the distance of the wheel from the blade. There are easy-adjustable knobs to index the teeth for fine-tuning sharpening, an adjustable positioning knob for various blade widths, and adjustable set points for easier tooth-setting.

The Sharp'n'Set device requires a stable and flat surface for installation: a table, stand, or worktop. It can be placed in almost every workshop corner with compact dimensions of 50x50 cm. A 12-V DC electric motor is used to power the combo machine.

The best choice for grinding is a CBN wheel which has been developed for quick and efficient sharpening of sawmill

blades. CBN wheels use a super abrasive material for grinding, which prevents the blades from dulling too quickly and prevents overheating.

The BMST50 uses a 127-mm-wide CBN wheel that requires grinding oil. To make the sawmill blade sharpening as effective as possible, CBN grinding wheels are available in several default profiles that require the user to carefully match the CBN profile with the shape of the sawmill blade teeth.

With every next sharpening, the tooth setting is decreased and requires readjustment. When setting the teeth, following the "left-right-straight" pattern is essential to ensure that the left and right teeth are used for opening the material and the straight one for removing sawdust from timber.

It is common practice to apply narrow tooth sets for hardwoods and a wider tooth set for softwoods. The BMST50 has a 1-year warranty and full technical support.

High-tech drilling center from Nanxing



NCB612DT integrates drilling, grooving, simple routing, and Lamello processing provides an ideal solution for invisible hardware or Lamello users.

Salient features

- 4-slot line tool-changer in ISO30 connector cooperates with tool-setting gauge for fast tool changing.
- Max rotating speed of top 5.5kW spindle up to 18,000 rpm.
- Optimised drill layout to finish the drilling faster. Min. distance for ver. symmetrical drilling simultaneously is 160 mm.
- Syntech control and operation system, more reliable electric components, industry level computer. High performance

- and stability during long service lift;
- Multiple formats accept MPR, DXF, BAN, BPP, PDX, XML, XXL
- Top drilling blocks Ver. 18 plus Hor.
 X & Y 6+4, 1 bottom drilling block with
 ver. 9. Total drills are 37. Top and
- bottom have 3.5-kW spindle router. One crosshead spindle withe horizontal processing.
- Nanxing high quality self-processed parts by laser cutting, robots welding, sandblasting, advanced 5-axes CNC processing.

Technical specification

Panel size: drilling + grooving

Minimum working piece:	30x70 mm	
Length:	250- 2,400 mm	
Width:	65-1,200 mm	
Thickness:	12-50 mm	
Panel size: (routing)		
Length:	200- 3,000 mm	
Width:	30 (groove 40) -1,200 mm	
Thickness:	10-50 mm	

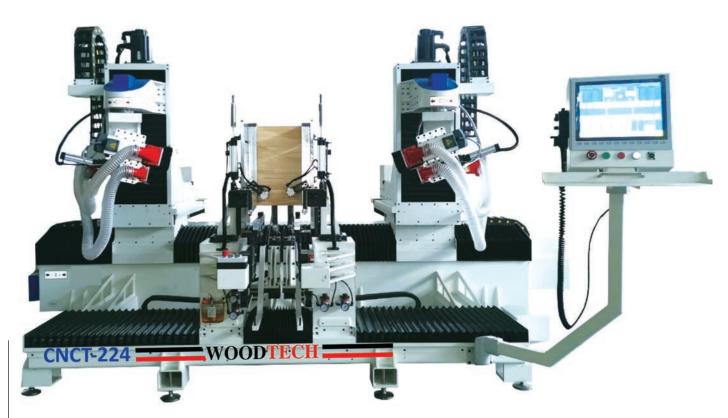
Top-end tenoner, mortiser from Woodtech

The CNCT-224 is a comprehensive CNC tenoner machine, which can make different types of tenons, thus allowing the customer to select the best one suitable for their requirement.

The machine has the capability to process different types of tenons at the two ends at the same time, or just process one end separately. With its modular parametric design interface, no programing is required and it is easy and fast to operate.

Max Mortise Length Material Length Material Width	: : :	40mm 180-2000mm 10-200mm	
	: : :	10-200mm	
Material Width	: :		
	:		
Material Thickness		10-80mm	
50 Straight Material Min. (LxW)	:	450mm x 60mm	
ervo Drive	:	Japan, Yaskawa	
eading Screw	:	Taiwan, Abba	
Guide Track	:	Taiwan, Hiwin	
3 Axis	:	~300 mm	
Axis	:	450~200 mm	
peed X	:	10m/min	
peed Y	:	10m/min	
peed Z	:	10m/min	
lectrical Appliances	:	Schneider, France	
Rotary Shaft Reducer	:	Japan, Shimpo	
Milling Spindle	:	5.5kw x 2 / 12000 RPM	
Process Joint Main Shaft	:	2.2kw x 2 / 18000 RPM	
Appearance Size	:	3910 x 2850 x 2150 mm	
eeding Speed	:	30m/min	
Veight of Machine	:	3,500 kg	

CNCT-224 - CNC Tenoner Machine



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The NCM-3724 mortiser has wonderful system that is stable and reliable and 10,000 groups of memory of processing data can be saved on it. This machine is provided with two program guidance, tool-adjusting bar and main spindle.

The modular programming feature is suitable for processing more types of mortises and grooves. The machine also has multiple heads, high speed milling, double station processing, alternating processing, and continuous production.

Other features include display drawing on the screen, alarm recording and abnormal information display.

Specifications		
Maximum width of pressing material	:	160 mm
Maximum depth of pressing material	:	100 mm
Maximum length of pressing material	:	3,400 mm
X axis stroke	:	3,430 mm
Y axis stroke	:	410 mm
Z axis stroke	:	270 mm
Milling shaft head number	:	4 Nos
Shank diameter	:	12.7 mm
Workbench locking mode	:	power driven
Bending material processing	:	Yes
Maximum milling shaft speed	:	1,8000 RPM
Maximum moving speed	:	30 min
Mill shaft motor power	:	3.7 kW ×4
Mill shaft motor power	:	2.2 kW ×4
X axis motor power	:	2.0 kW
Y axis motor power	:	0.75 kW
Z axis motor power	:	0.75 kW
Air source pressure	:	0.60 MPA
Diameter of the suction port	:	100 mm
$\label{lem:lement} \mbox{Air requirement of vacuuming system}$:	100 m 3/min
Air speed of the cleaning system	:	30~40 m/s
Overall dimensions of machine	:	4500×1700×2100 mm
Weight	:	2,100 kg
Voltage	:	415V/50Hz/3P
Country of origin	:	China

NCM-3724 - NC Mortiser Machine



Greenpanel orders 3rd Dieffenbacher MDF plant

India's largest MDF manufacturer, Greenpanel Industries, has ordered its third MDF plant from Dieffenbacher. The new thin-board line, based on its smart plant concept Cebro, will be added in Andhra Pradesh.

That is the same site where Greenpanel commissioned a Dieffenbacher MDF line with a 56-metre-long CPS, the longest continuous press in Asia, in 2018. The two companies' first project, an MDF plant that started up in 2010, pioneered the Indian MDF market with the first continuous wood-based panel plant on the sub-continent.

The new Cebro line, scheduled to go into operation in 2024,

will include a fibre dryer, air grader, forming station and forming line, a CPS+ continuous press system, the press emission control system, raw board handling and the new wireless STS raw board storage system.

The scope of supply also includes the digital service platform, MyDieffenbacher and Evoris.



Pidilite to manufacture Jowat hot-melts in India



Pidilite Industries will manufacture the Jowat range of hot-melt adhesives in India at the state-of-the-art manufacturing facility in Vapi (Gujarat), under the Fevicol Jowat brand name.

Sudhanshu Vats, Deputy Managing Director of Pidilite Industries, and Klaus Kullmann, Managing Director of Jowat SE, recently signed a document towards that effect.

India's leading manufacturer of adhesives, sealants and construction chemicals has further strengthened its collaboration with Jowat SE, one of the leading suppliers of industrial adhesives worldwide.

Since 2018, Pidilite has been exclusively handling sales and distribution of the entire range of Jowat adhesives in India and other neighbouring countries, including Sri Lanka, Bangladesh and Nepal.

Hettich Poddar Institute gets 'elite' school tag

The Faridabad-based Hettich Poddar WoodWorking Institute (HPWWI), an initiative of Hettich India, aims at imparting aptitude and know-how in the areas of wood processing and hardware installation.

Established in 2016, it is spread over 10,000 square feet with three fully equipped state-of-the-art classrooms and fully loaded labs with power tools and woodworking machinery, giving both theoretical as well as practical knowledge to its students.

Under the Pradhan Mantri Kaushal Kendra (PMKK), HPWII has been allotted elite status and will be training a minimum of 240 candidates as per the training target allocated by PMKK. It now gets precedence over Pradhan Mantri Kaushal Vikas Yojana (PMKVY) training centres in terms of the mobilisation of trainees by the National Skill Development Corporation (NSDC)



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Biesse donates machines to Hettich Institute



Biesse, a pioneer in designing and manufacturing woodworking machines, has been demonstrating its leadership in the industry with initiatives to support skill development in the manufacturing sector.

In line with this commitment, Biesse has donated a Rover Gold 1232 CNC

machine and CAD/CAM software for advanced training to Hettich Poddar Woodworking Institute (HPWWi) in Faridabad.

Biesse had earlier also donated a panel saw and two through-feed edge banding machines as part of the previous collaboration with the institute.

Apart from the machine donation, Biesse, as a skill ambassador in the Furniture & Fittings Skill Council (FFSC), is also committed to supporting the skilling ecosystem in India.

One of its initiatives is to support the National Skill Training Institute (NSTI), Kolkata, in developing advanced woodworking courses. Biesse also aims to work with the Indian Council of Forestry Research and Education (ICFRE) and the Institute of Wood Science and Technology (IWST) to submit project proposals for woodworking technologies in different forest development corporations and common facility centres.

Hettich lauds architects in coffee table book



Hettich India recently launched the North edition of its coffee table book, Thought Leaders in Architecture & Design, in New Delhi. The book encapsulates a handpicked list of architects and designers from North India who talk about their work philosophy and their focused approach to bringing space, design and technology together to create

architectural masterpieces.

The event was graced by who's who from the architect fraternity in North India and Board Members of Hettich, including Dr. Andreas Hettich, Mr. Saroj Poddar and Mr. Andre Eckholt.

Keynote addresses were delivered by international architects, Marc Roca and

Lee Nellis.

The intent is to create a platform to showcase and celebrate architectural icons and designers who have used their vision and expertise to create architectural marvels that have completely transformed the landscape of the country and the world at large.





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State-of-the-Forests report released

The 'India State of Forest Report 2021' prepared by the Forest Survey of India (FSI), which has been mandated to assess the forest and tree resources of the country was recently released.

The main findings include an increase of 2,261 square km in the total forest and tree cover of the country in the last 2 years. Madhya Pradesh has the largest forest cover in the country; the maximum increase in forest cover was witnessed in

Andhra Pradesh (647 square km), followed by Telangana (632 square km) and Odisha (537 square km); and 17 states and Union Territories have above 33% of the geographical area under forest cover.

The total carbon stock in the country's forest is now estimated to be 7,204 million tonnes, an increase of 79.4 million tonnes, while the total mangrove cover in the country is 4,992 square km, an increase of 17 square km.



Sustainable management is a significant component of the Egger Group's corporate behaviour. A key requirement is the continuous improvement of its sustainability management and

Egger wins two 'green' awards

the company gets itself assessed regularly by external institutions.

Most recently, it was able to achieve two awards in sustainability ratings: Prime status in the ISS ESG Corporate Rating, and the EcoVadis silver medal. ISS ESG is one of the leading rating agencies in the sustainable investment segment.

For the third time already, it awarded the Group Prime status, which is reserved for the best companies in their respective industries. Companies achieve Prime status if they meet or exceed the sustainability performance requirements defined by ISS ESG for a specific industry.

Egger found itself in the top three of 49 companies in its own industry that were assessed by ISS.

Weinig takes over HIT Maschinenbau

Michael Weinig AG, the specialist for woodworking machinery, has concluded an agreement to acquire majority shares in HIT Maschinenbau and HIT Keilzinkentechnik. With this strategic acquisition of a company excellently positioned on the market, Weinig is expanding its portfolio in the area of automation and mechanisation and is upscaling its Glulam and sawmill technology segment.

HIT Managing Directors, Franz Anton and Werner Spieth, will be responsible for the operational business of HIT in the coming years, and Franz Jeckle will continue to support the team in an advisory capacity for some time.

Teak tops Ghana's exports to India

Air-dried sawn wood exports accounted for 52% (11,244 cubic metres) of Ghana's wood export trade in January 2023 (21,649 cubic metres) with 12 different wood products accounting for the remaining export volume.

This was followed by kiln-dried sawn wood exports (14%), plywood for the regional market (8%) and mouldings (7%), which altogether accounted for 17,477cubic metres of total export trade in January.

Of the 10 species that went into the production of air-dried sawn wood for export in January 2023, teak accounted for 92% of the trade. India was the primary destination of Ghana's wood products, accounting for more than 50% share of export volumes. – ITTO



Association of Furniture

Manufacturers & Traders (INDIA)





BENEFITS OF BEING A MEMBER



AFMT Directory will be an effective tool to project profiles of our members before related industries, other business houses, developers, design community, embassies and trade commissions. It will also help members to locate other manufacturers, traders and importers for sound business growth.



As exhibitions are a one point B2B platform, this should be affordable for every member. The association liaisons with various event organizers to get preferential rates for members of the Association at fairs and exhibitions.



Trade Trips

The association on behalf of all its members organises professional and educational trade trips to different parts of the world.





Recognition

foreign companies and other International trade organisations who wish to know about our industry. Effective technology and information transfer through collaborations & joint ventures.

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AFMT offers a platform where members can exchange information about their products and do business.

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AFMT as an entity would approach the Government to demand a non biased taxation policy. To collectively voice concerns of the Furniture Industry to the Government bodies.



Newsletter

designed to keep the Furniture Industry informed of the latest developments in the business. It will carry information on the activities of the association, its partners and members.

The most effective way of reaching out

to people from our industry. It will be

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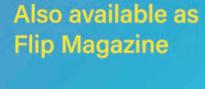
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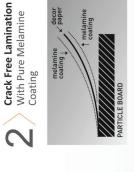








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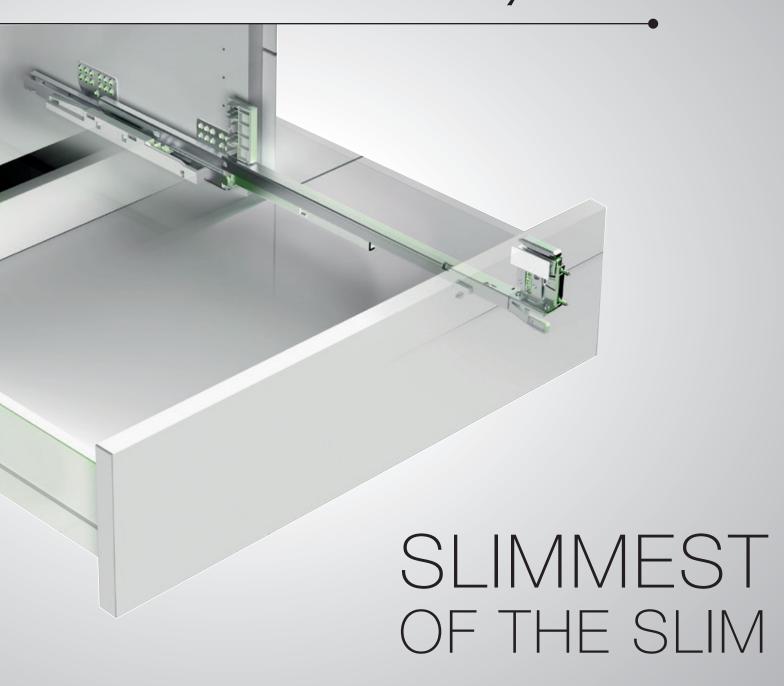
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