FURNITURE AND MANUFACTURING MATERIALS AND TECHNOLOGIES



Pioneer in the service of the woodworking RS industry

WALKS THE TALK

Furniture & interiors in its new India HQ sawn & milled on its own machines!

A new window of opportunity P.54

SPECIAL FOCUS

DE)

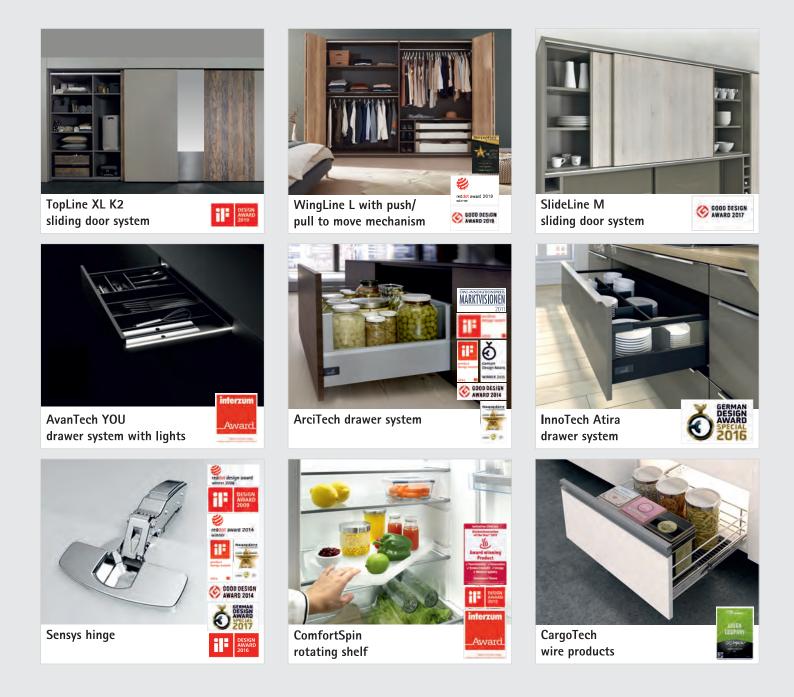
INTERVIEW

Homag India's Venkat on industry progress P.96



JAN - FEB 2023 Vol. 32 • No. 5





Loved by customers. Awarded by experts.

We have always been at the forefront of creating cutting-edge innovative fitting solutions that enable our customers translate their vision into reality.

No wonder, that our products are loved by customers and awarded by experts!







Wood was the only building material in the past. It is now the future.



For centuries India has been using wood for building its magnificent temples, monasteries and dwellings. Now, modern architects and developers are going back to using wood for the many benefits it offers.















March 2 - 5, 2023 India Expo Centre & Mart, Greater Noida, India

Canadian Wood attributes: Ready to use lumber | Graded & Seasoned Certified and legally harvested wood from sustainably managed forest of B.C., Canada

BELONG Partner With India's leading Wardrobe Manufacturer.



WARDROBES KITCHENS PARTITIONS FURNITURE



For Franchise Partnership atelier.info@aristo-india.com www.aristo-india.com | +91 8880 160 160





Trust Matters, Take Pride in Quality Stick To Original Passion

Woodworking Total Solutions Since 1989

HOLYTEK



D



0000 0000 0000

HOLYTEK



Through Feed Edge Banding Machine



Straight Line Rip Saw

High Frequency Machine



HOLYTEK INDUSTRIAL CORP.

Skype Holyte

Sliding Panel Saw



Tel: +886-4-2245-2818 (Rep.) Fax: +886-4-2243-6928 George Ko: +886-933403980 E-mail: holytek@holytek.tw http://www.holytek.com.tw Agent: COUNTEK Worldwide Woodworking Machines PRIME SOLWOOD INDI

PRIME SOLWOOD INDIA PVT. LTD. Tel: 011-47023999 E-mail: info@solwoodindia.com





Imitations come with their own limitations. Trust the original.

Pro-Lift Electric Bed Fittings

Space-saving Solutions That Allow More To Be Stored!

Comfort and Convenience:

- Sleep comfortably and store more! Using one multi functional bed.
- Easy accessibility, every day.
- Safe and secure.
- Choose from wide range of manual and electric (switch/remote) models and as per the bed size.



to view our Livsmart Brochure

artphone

to view Display Centers Network

Truly Indian and World-Class.

Reach us at info@ebco.in or call +91-22-6783 7777 Toll free 1800 120 1122 | Web ebco.in | shop.ebco.in



f 🞯 🎔 in 🖻





With latest designs and technologies, Livsmart fittings ensure your kitchen is functional, convenient, and elegant, making you want to spend more time in the heart of your home.



Kitchen Baskets SS 304



Corner Solutions



Storage & Overhead Systems







Furniture Lights - LED



Scan with smartphone to view our Livsmart Brochure



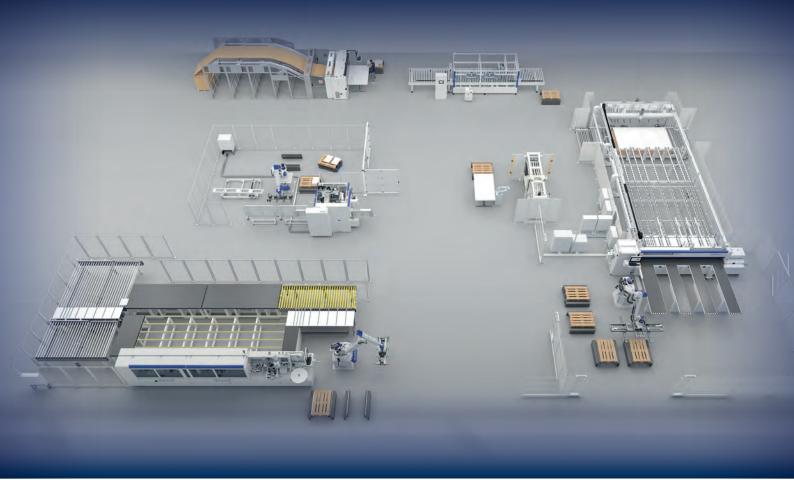
Scan with smartphone to view Display Centers Network

Truly Indian and World-Class.

Reach us at info@ebco.in or call +91-22-6783 7777 Toll free 1800 120 1122 | Web ebco.in | shop.ebco.in



(f) (i) (y) (in (b)



SMART&HUMAN FACTORY OUR WOODWORKING TECHNOLOGIES, YOUR VISION

Simplify work and improve performance with the widest range of woodworking solutions. **Flexible and modular machines and cells**, integrated with **state-of-the-art systems and automation**, such as anthropomorphic robots, cobots and autonomous mobile shuttles.

Smart technologies to increase efficiency and flexibility, reduce scraps and waste, optimize the quality of your products with the **latest software and digital services.**

A production system conceived both for the **industry** and the **joinery**.

A human approach to help you achieve your vision, with a team of specialists **always ready to support you**, even from afar.

SCM: your Smart and Human Factory.

15-19 May Visit us at Hall 13



www.scmwood.com





SCM SURFACE TECHNOLOGIES. INTEGRATED WITH A HUMAN TOUCH

Full automatic or robotic flat-line spraying solutions, to include:

- vertical or linear dryers and UV systems,
- roller coating lines,
- printing lines for panels,
- finishing solutions for windows and three-dimensional pieces.

Calibrating machines and sanders for custom abrasive solutions to achieve exact finishes even in high gloss or super matt, and **Stand alone presses or complete pressing lines** for 3D lamination with membrane or membrane-less processing cycle.

The most modern and efficient pre-treatment and finishing applications become a tool to create aesthetically pleasing finishes, even with stunning and unique three-dimensional effects or extremely silky and virtually fingerprint-proof matte surfaces.

Integrated high-tech solutions that celebrate the extraordinary sense of human touch.



DISCOVER MORE





Contents JANUARY - FEBRUARY 2023

16 ^{ever}

32

42

EVENT UPDATE

EDUCATION

COVER STORY

ΗQ

Canadian wood enchants Bengaluru, Jaipur consumers

CIFF coming to Guangzhou in March

Ligna 2023 set to return in May

Interzum to focus on 'Shaping the change'

Wood Taiwan spotlight on sustainable machinery

AHEC on NHLA rules for grading timber

Printing paper for decorative laminates

Felder walks the talk for its new India

WoFX wraps up its third edition in Mumbai Events Calendar



SPECIAL FOCUS

DelhiWood 2023: Another window of opportunity for industry. Plus exhibitor highlights

88

TECH UPDATE

Transparent solar panels could replace windows

Henkel's Loctite Pulse makes MRO easy

New hot-waxing to prevent wood aging

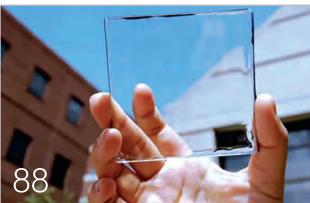


INTERVIEW

Homag is about customer-relevant, sustainable solutions, says its India Head, Venkataramana Gorti







96 KE HOMAG





LYMARC

Plymarc's offerings are built to stand the test of time. Our broad range of plywood, veneers, and PVC boards is trusted for its premium finish, durability, and strength, the characteristics that make our products a preferred choice during construction and interior decor all over the world.



AFRICA

Y F *L*

We have exported a whopping 20 million sqft of plywood to date. Our product quality and operational transparency have helped us win trust beyond boundaries.

EUROPE





AUSTRALIA







104^{feature}

Fungi-infested, 'rotten-to-the-core' wood can be good too!

Canadian wood scores on value, versatility

Emerging market for anti-microbial coatings

Preservatives for coatings, paints under threat

124 DESIGN & FINISHING

US Red oak takes the spotlight in Dubai office

Wood-Mizer puts 'Strawberry Train' back on track

Japanese exhibition highlights Hida craftsmanship

Spanish building wins 'certified timber' prize

|40| PRODUCTS & PROCESSES

Action Tesa, Blum, De-Lux Udyog, EuroTech, Hettich, Jai, Ruei, SCM, SquareFoot, etc.



G OBITUARY

Pioneer architect Balkrishna Doshi no more



NOTES-N-NEWS

What's going on at Altendorf, Blum, DIPA, Dieffenbacher, and more



Chief Editor | Dhananjay Sardeshpande dhananjay@pdatrademedia.com

Chief Copy Editor | Roy Thomas roy@pdatrademedia.com

Copy Editor | Khushi Rawat kushil@pdatrademedia.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 chandrul@pdatrademedia.com

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

Manager - Design | Ramesha K S ramesha@pdatradefairs.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(Bacw.com.tw

Printed by:

Repromen Offset Printers Pvt. Ltd., Bangalore, India.

WoodNews is published bi-monthly by PDA Trade Media, a division of PDA Trade Fairs Pvt. Ltd. Material from the magazine may be reproduced, in part or in full, only with prior permission and giving due credit to the source. Articles express the views of the authors, not necessarily those of the management. No responsibility is undertaken for the absolute accuracy of information published. All correspondence, including material for publication, may be addressed to the Chief Editor.



PDA Trade Media, A Division of PDA Trade Fairs Pvt. Ltd. 32/2 Spencer Road, Frazer Town, Bangalore, 560 005, India. Tel.: +91-80-4250-5050 Fax: +91-80-2551-3078

Chairman | Pradeep Devaiah

Printed by V. Krishnamoorthy, published by PDA Trade Media, owned by Pradeep Devaiah, printed at Repromen Offset Printers Pvt. Ltd., No 46 & 47, Krishna Reddy Layout, Domlur, Bangalore - 560 071 and **published at** 32/2 Spencer Road, Frazer Town, Bangalore, 560 005 Editor: Dhananjay Sardeshpande.

Official Magazine of:

a · f · m · t

Representative Member for India





www.woodnews.in

Now available online at:





NOODNEWS

THANK YOU INDIA FOR MAKING R PART OF Δ **OUR HOME** C MIC

India's Largest Range of Decorative Panels











+91 880 27 27 127 info@ornare in www.ornare.in

FROM THE



EDITOR DHANANJAY SARDESHPANDE

Happy forecasts, DelhiWood, and a bouquet of opportunities

Hello Reader,

Let us begin with good tidings in the New Year! Global Construction Perspectives recently published the latest edition of its annual forecasts for global construction volumes in 112 countries until the year 2030. The report forecasts a decline in construction activities in 70% of these surveyed countries (82 out of 112), resulting from higher interest rates, weaker economies and budgetary pressures on the public sector. The subsequent recovery may be slow, with 2022s construction volumes not expected to be recouped before the year 2028.

On to the happy tidings... Among 11 emerging markets, with growth averaging more than 6.5% per annum, Indian construction volumes are is set to grow at the rate of 9.7%, annually, making it the third-largest construction market globally. In comparative terms, the Indian construction sector is expected to be half the size of the US (No.2 globally) and less than a quarter of the size of China (world No.1). Isn't that food for thought – and action?!

As I have said in this column before, the proof of the pudding is in the eating. That is why we have featured Felder India's exemplary step in making an important point to the Indian woodworking market: its machines can do what the company claims they can achieve! Felder's new India headquarters in Vasai (neighbouring Mumbai) is a 4,700-square-foot industrial plot that now houses its experience centre, warehouse, sales and service offices. Read on to find out why it has featured as our cover story this time.

Furniture manufacturing in India is morphing into an organised industry to adapt to fast changes in the furniture market. India is the fifth-largest furniture producer at a global level, and the fourthlargest consumer of furniture. In this backdrop, DelhiWood 2023 comes to life at India Expo Centre and Mart, Greater Noida for four days: 2nd to 5th March. Leading players from the furniture manufacturing segment will converge to interact with numerous national and international decision-makers, acquire new customers, and discuss key issues during the 4-day trade show. We have more on this in the Special Focus.

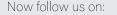
As usual, *WoodNews* has advance information and reviews on more trade shows than any other publication in India – from Canadian Wood webinars to outlooks on CIFF-Guangzhou, Ligna, Interzum and Wood Taiwan. Also check out what Venkat, Country Head of Homag India, has to say about changes in and prospects for the woodworking industry in India. Here is wishing you all a prosperous New Year! And, yes, let us meet up at DelhiWood!

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).





If you prefer to communicate by snail-mail, you are welcome to write to us at: WoodNews Magazine, No. 32/2, PDA House, Spencer Road, Frazer Town, Bengaluru-560005. (+91-80-42505000).

We look forward to hearing from you soon!

14



Your trusted partner for complete tooling solution

Please visit us at DELHIWOOD 2023 Hall No: 15, Booth No: E502

Bosch Limited, Power Tools Division, PA-AT Complex, Hosur Road, Adugodi, Bangalore - 560030 Email: raghavendra.naik@in.bosch.com / c.kiran@in.bosch.com Mobile: 9036143066 / 9591988173

Follow us on **(f)** @FreudToolsIndia

Canadian wood enchants Bengaluru, Jaipur consumers



The British Columbia (B.C.) provincial government's crown corporation, Forestry Innovation Consulting India, popularly known as Canadian Wood, hosted a seminar on 'Wood in Manufacturing' in Bengaluru and another seminar on 'Creativity with Wood' in Jaipur recently.

The 'Wood in Manufacturing' seminar put forth insights into the growth of India as a manufacturing hub for the woodworking industry and also the possibilities for bespoke furniture with sustainable wood.

The session began with a welcome note and message by Pranesh Chhibber, Country Director of Canadian Wood, followed by presentations from distinguished speakers. Bram Rouws of Bram Woodcrafting Studio (Mysuru), spoke about his experiences in creating bespoke furniture with Canadian wood. Thomas Markose, Kelachandra Speakers and Canadian Wood administrators pose for a picture at the beginning of the seminar on 'Wood in Manufacturing' in Bengaluru.

Veneer Industries (Bengaluru) spoke about climate change and how we should be more responsible.

Anil Tiwari, of Tec Workshop Interiors, showcased some of his past projects of ITC and Taj hotels, and an on-going project of Wood-Niido with Canadian wood species.

Speaking of the functionality of Canadian wood species, Bram said, "The species of Canadian wood are very functional, sustainable and certified.

Canadian Wood's seminar on 'Creativity with Wood' in Jaipur attracted several speakers and distinguished architects.



It also imparts an elegant and natural finish to the end product. Additionally, it is easy to maintain and long-lasting."

Thomas said, "Sustainable timber is one of the most important species of wood in the industry. Owing to climate change, we need to be more responsible from our end to ensure that this industry sustains for the next 100 years."

Anil said, "Though we have light metals such as aluminium and PVC that are cheaper than wood, the latter is more durable, eco-friendly and sustainable. It also adds panache and looks elegant."

Jaipur seminar

The 'Creativity with Wood' session began with a welcome note and message by Pranesh Chhibber, Country Director, Canadian Wood, followed by presentations from distinguished speakers.

Samiir Wheaton, Founder of Wheaton Design, spoke about the benefits of Canadian wood and how companies are highly reliant on heavy machinery, which cuts down the labour cost.

Architect Shrey Tiwari of Design Tellers spoke about his project, Candrol Centre of Oncology. Vinod Baid, Director of Dileep Industries, shared insights on how the demand for certified and sustainable wood is on an upswing.

Samiir said, "We prefer Canadian wood species because they are high in quality, sustainable and are cost-effective. This allows us to be creative with the design and helps us attract more customers."

Earlier there was more focus on European designs; but with modern trends and aesthetics, people are moving to trendy designs in terms of new colours, and seamless application of wood that help them create such designs, he added.

Shrey said, "Canadian wood species are amazing choice as they are easy to use, genuine, dimensionspecific, consistent and standardised. We are always looking for the experimenting with the woods in terms of creativity and now the demand for woods has been increasing day by day."

Vinod said, "Nowadays the demand for wood to manufacture furniture is getting higher and requires faster mechanisms in place. Hence, we chose Canadian wood. The suppliers are prompt in delivery, and the texture is always genuine."

FII largely promotes five wood species in India that are sourced from the sustainably managed forests of B.C.: Douglas, Western Hemlock, Western Red Cedar, Yellow Cedar and Spruce-Pine-Fir (SPF).

Through a strong network of more than 40 stockists, these species are available in 23 cities across India.

NITSHAW

10+ years of sales & services excellence in woodworking & furniture industry.



NITSHAW Wood Panel & Surface Technologies Pvt. Ltd.

B-175, 4th Main, 2nd Stg, Peenya Industrial Area, PH IV, Bengaluru: 560055, India. Ph: +91 80 28510199, +91 8792731778. Email: info@nitshaw.com Web: www.nitshaw.com

CIFF coming to Guangzhou in March



China International Furniture Fair (CIFF) is presenting its next edition in March 2023 at Guanzhou, developing new formats to give an enthusiastic welcome to all the players in the furniture industry, both Chinese and international.

CIFF, the leading furniture fair in Asia, will provide a concrete response to the major changes and new challenges at play in the global furniture market, creating a new business model to innovatively conceive and manage a major international exhibition event.

This model is based on promoting the value of design, the synergy between the domestic market and exports, and the integration of offline and online promotion to optimise and complement the exhibition.

The 51st CIFF Guangzhou 2023 will take place in two phases, reorganised by product sector in the new exhibition concept and layout.

The first phase (18-21 March) is dedicated to the living space. The home furniture sector will showcase the latest home furnishing products from leading Chinese and international companies.

There will be an area dedicated to companies offering OEM/ ODM services and one-stop solutions required by international buyers, once again underlining CIFF's role as a link between furniture manufacturing and global markets. The 'Home décor' and 'home textile' sections will focus on new trends in interior decoration: furniture accessories, lighting, paintings, decorative elements, and artificial flowers.

Outdoor furniture, sunshade and leisure section will focus on the presentation of outdoor furniture such as tables, chairs and awnings for the garden, as well as leisure equipment and decor.

Second phase

The second phase (28-31 March) will feature office and commercial space, exhibiting workplace systems and seating, trends and solutions in the smart office, as well as public, school, and commercial environments.

This will also include furniture for

EVENT UPDATE

healthcare and for meeting the needs of older people.

Under 'Design trend, global trade, entire supply chain', CIFF will promote top-class companies and products of interest to both, the domestic market and the export demands, organising a large number of design exhibitions, seminars, and B2B meetings online and at the.

The integration and necessary synergy between the traditional trade fair event and online activities is enshrined in



'8+365', a strategically significant project launched by CIFF in 2022 that has already enabled hundreds of international buyers to meet virtually with numerous Chinese manufacturers.

This project helps create profitable business relationships that would otherwise be impossible during a period characterised by the impossibility of travelling and meeting physically.

An online matching platform is also being launched on the CIFF website that will receive specific requests from international buyers. These requests will be processed by CIFF's exportoriented exhibitors, effectively creating a business relationship facilitated and supported by CIFF itself.

For more information, visit: www.ciff.furniture.



EVENT UPDATE

Ligna 2023 set to return in May

After a pandemic-enforced break of 4 years Ligna, the world's leading trade fair for the woodworking and wood processing industry, will once again revert to its face-to-face contact model.

This will provide exhibitors with the opportunity to perform live demonstrations – not just of machines and tools, but also of total solutions covering all aspects of their products and services, and to showcase innovations particularly within the context of digitisation and sustainability.

The flagship trade fair will now be held in Hannover (Germany) from

15 to 19 May 2023 and, reflecting on the buzz the event has generated, around two-thirds of Ligna's long-standing exhibitors have already confirmed their participation, with 75% of the available exhibition space already occupied.

"This positive trend underscores the importance of Ligna for the woodworking community as a key networking hub and platform for development and innovation," says Dr. Bernhard Dirr, Managing Director of the VDMA's woodworking machinery division, referring to the high level of registrations.

Ligna 2023 will continue to be the leading international showcase for the entire value chain and innovative solutions for all stages of woodworking and wood processing – from harvesting to surface finishing.

And this, involving not only wood as a raw material – which is at the core of the event– but also other materials such as plastics, glass, stone and composites, among others.

In addition, the show's appeal will be enhanced by digital elements designed to increase the event's reach – before, during and after the show.

The event also scores high with its focus on current industry developments. By choosing 'Digitisation' and 'Wood in Construction' as its focus themes, the event is addressing important sustainability aspects, presenting new, innovative solutions and thus reaffirming





The Leader in India for Saw Blades - Tools - Resharpening



- India's largest Saw blade manufacturer with best in class CNC Machines
- Superior customer service for Wood, Plastic, Ferrous, Non-ferrous industry
- Committed to detailed high quality workmanshipe

- We produce saws and tools of all geometry
- We offer full range of tools and accessories

BASCO TOOL PVT LTD

D39 HSIIDC Sector 31 Faridabad - Haryana -121003

Email bascotool@gmail.com Phone +91 129 4004066 Mobile +91 9350291088

Sales and Service Center

- Faridabad
- Ludhiana Mohali
- Hajipur
 - Muzafarpur

■ Yamunanagar ■ Moradabad

its position as the world's leading trade show for the industry.

Ligna 'Stage'

In addition to the presentation of tool and machinery solutions, visitors can also look forward to discussions of highly relevant industry challenges at the Ligna-Stage. At the Ligna-Campus, participants from research and education will present their educational offers and research projects, and at the Ligna-Future Square powered by VDMA, startups from the industry will showcase their business ideas.

At Ligna-Recruiting, professionals and companies will have the opportunity to present themselves in a digital job forum and exchange ideas in person in a matchmaking area onsite.

The Ligna-Stage forum programme consists of solution and user-oriented presentations along the focus topics as well as important market and trend developments.

The lectures will also be streamed

live via the Ligna website and simultaneously translated into English. The topics will include pre-fabrication processes in timber construction; transformation of woodworking; process technologies of the bio-economy; recruitment and careers; and circular economy and sustainability.

The topic of 'Digitisation along the value chain' will include an immersive discussion on subjects like networking of the machines; production planning; warehousing and logistics; building information modeling (BIM); wood flow control; interaction with customers and suppliers; robotics; material handling and optimisation.

Bio-economy

The forest and wood sector (wood value chain) is an integral part of the circular bio-economy. The wood-based bio-economy is considered an innovative driver of technologies and is, therefore, highly relevant and forward-looking for process technologies and products in woodworking and processing.

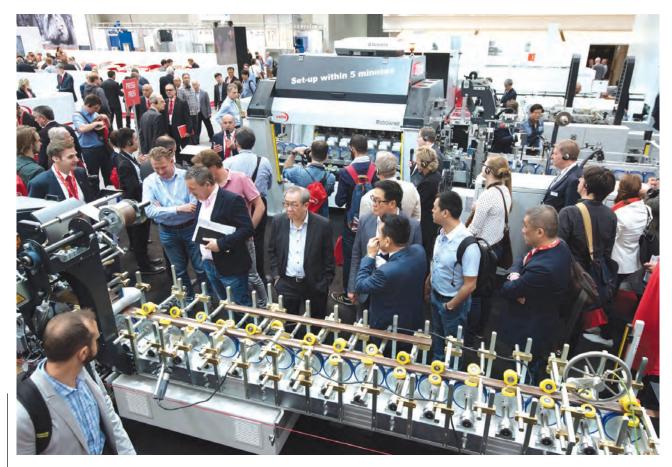
Bio-economy is a subject of fast-growing importance and describes the path from an economy based on fossil, mineral raw materials to an economy that relies on renewable resources.

Wood, as the most important renewable raw material, forms a central basis. The current framework for expanding the resource-efficient use of wood is part of the European 'Green Deal' and a pillar of a circular bio-economy.

To be shown are subjects including development lines of the wood-based bio-economy and technological innovations for the responsible use of natural resources and process technologies for shaping chemically pulped wood fibres.

Digital printing

DIPA (Digital Printing Association) Academy will present a 2-hour spotlight, for visitors on-site and in-stream, or on demand for anyone interested. The "future workshop" on digital printing will highlight, among other things, the academy as a solution to the acute shortage of skilled workers, the use of artificial intelligence in the digital printing process, and the need to build an ecosystem of its own in the digital environment of different machine manufacturers, technologies, and a wide variety of materials.





Adhesive Solutions

for Construction Elements and Assembly Bonding



KLEIBERIT 501.0

Single component PUR dispersion, no pot life problems, IMO FIB - code Part 5 & Part 2 various application.

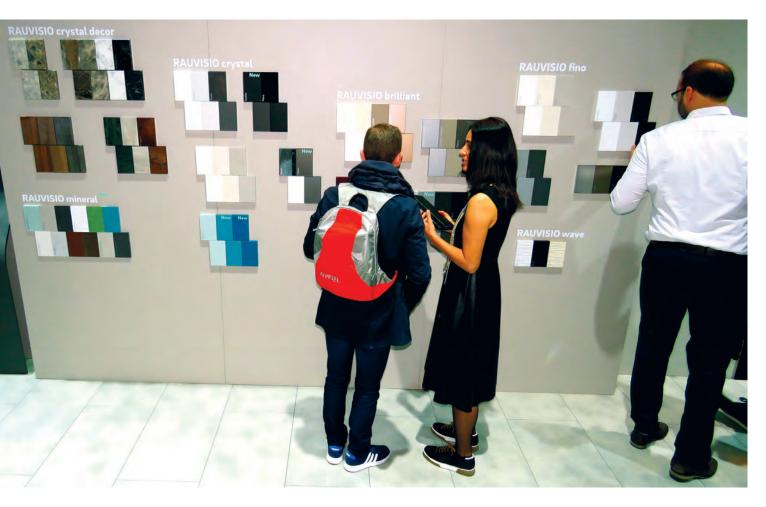
KLEIBERIT 605.0.20

1C STP Adhesives. Fast & bubble free curing, UV & weather resistant, paintable

KLEIBERIT 600.0 Elastic fixing, bonding and assembly with innovative STP technology for interior and exterior application.

KLEIBERIT Adhesives India Pvt. Ltd. | 3 I, 3rd Floor, No. 6, Rediffice Signature, Hospital Road, Shivajinagar Bengaluru - 560 001 Karnataka, India | Phone: +91 94480 58618 | www.kleiberit.com

Interzum to focus on 'Shaping the change'



Interzum (9-12 May 2023) will once again launch with fresh momentum and a new slogan: 'Shaping the change'. What this means in practice is that the event will place even greater emphasis on key issues of the future – sustainability, climate protection and resource efficiency – in order to drive forward the conversation about these matters.

After the digital Interzum@home edition in 2021, the industry event will finally take place again as a live experience in Cologne's exhibition halls in Germany this year.

With "neo-ecology" as the

overarching central theme, the leading international trade fair for furniture production and interior design is establishing a new focus and drawing attention to its future-oriented innovative strength.

Changes in our living and working environments have arguably rarely been felt as keenly as they are today. The coronavirus pandemic and its consequences, climate change and rising energy prices are presenting us with enormous challenges.

Megatrends such as increasing digitalisation and individualisation and, in particular, the growing need for greater sustainability are also influencing the way we live and work.

Koelnmesse, the organiser of Interzum, expects approximately 1,400 companies from around 60 countries to present their ground-breaking new products, technical innovations and revolutionary material solutions to a global audience at the industry event.

Decision makers, opinion leaders, influencers and trendsetters from all over the world will gather in person to discover innovations and new products, seek inspiration, and meet both established and new business contacts.

It is here that the supplier industry demonstrates the full scope of its capacity for innovation and in doing so plays a decisive and proactive role in shaping the change.

SMANDOOM 24

EVENT UPDATE

Sustainability slogan

By placing an even greater emphasis on sustainable practices and discussing the issues, Interzum will continue to drive the conversation forward so that new solutions can be developed together.

In keeping with its slogan, 'Shaping the change. Go create conscious living spaces', Interzum invites participants and visitors to find new answers to current and future design questions.

In order to present brand-new solutions to an international audience, the upcoming Interzum will combine the benefits of a traditional in-person trade fair with those of a digital event. Interzum@home in 2021 was successful in laying the foundation for this approach.

In 2023, international exhibitors and experts will shine a light on the trade fair's familiar themed segments, both on-site in Cologne and in the digital space. Themed special events – the Interzum Trend Forums – will highlight the creativity and flexibility of the furniture supplier industry in responding to the challenges of our time.

The latest furniture and interior design sector topics will be presented to an international trade audience with reference to key trends. With the Product Stage and the Trend Stage, Interzum offers additional opportunities for exhibitor and product presentations as well as a platform for addressing marketspecific and design-related issues of the future.





Wood Taiwan spotlight on sustainable machinery

Organised by the Taiwan Woodworking Machinery Association (TWMA), Wood Taiwan 2023 will be held at Taipei Nangang International Exhibition Center (online from 4 April to 20 May; at site 2-7 April), echoing the theme, 'Envision a Greener Future'.

From production to consumption, Wood Taiwan 2023 will showcase how wood is produced, processed and manufactured in the woodworking machinery industry, and how it is used in a sustainable fashion on the consumer end for environmental protection and energy conservation.

As a bio-resource, wood is also seen as a green material today. As the awareness of net-zero sustainability emissions and grows, wood, one of the few materials, carbon-negative indispensable becomes an resource.

According to Qin-Liang, senior consultant of TWMA, trees in primeval forests were cut down on a massive scale in recent decades, bringing destruction to primeval forests. In response to this, many countries imposed bans on cutting trees to protect woodlands.

But due to market demand, many regions such as North America

have started to put forward plans for large-scale plantations, an attempt to meet the needs of the woodworking industry as well as consumers by taking advantage of man-made forests.

In light of this trend, woodworking machinery will play a crucial role in how to utilise such natural resources in a sustainable and effective manner. Wood Taiwan offers various solutions for maximising the utilisation rate of wood.

With woodworking machinery optimising the production line, the utilisation rate increases from 30% to 90%. Not only does this approach reduce the waste of raw materials, but it also improves the end products' (furniture) sustainability.

Reducing waste

Among the highlights of the show will be the finger jointing system presented by Cheng Kuang Wood Machinery Works, which revolutionises the existing processing procedures.

In the past, only the middle part of a tree was taken out, leaving the rest of the tree wasted. Now, with the help of finger jointers, processed products such as wood bars can be made from wood residue instead of wood logs.

Another product that reduced wood waste is the smart mechanised nesting production line by Anderson Group. Logs are a finite resource and will eventually be depleted. It is therefore important to reuse wood waste and residue, and that is where woodworking machinery comes into play.

Smart mechanised nesting production line maximises the utilisation rate of wood, facilitates clients in transforming from traditional to digital production, increases capacity, and reduces manpower by leaving production work to machines.

Other essential production equipment for the system furniture industry includes the CNC machine centre of Lih Woei Carpentry Machine, panel saws of Tai Chan Machinery, edge banding machines of E-Chain Machinery, and boring machines of ABM Woodworking



www.altendorf.in



Your specialist for sliding table saws

Your production must run. The calculation must be right. And your team deserves the best machines. With an Altendorf sliding table saw, you commit to quality and reliability. And thereby secure long-term success of your company.



PLASTIC

Hand Guard



Our Safest

WA 8T



The Most Popular



Our Masterpiece

F 25



The Compact Cutter



Our Powerhouse

WA 6



Our Entry-level Model







f /altendorf.india
 in altendorf-group-gmbh/
 /AltendorfMinden

EVENT UPDATE

Machinery.

The CNC machine centre saves more energy compared to a traditional one. The motor on traditional machinery starts with full current output when turned on. However, CNC equipment, equipped with an inverter and the feature of detecting processing load, gives an appropriate value of current, which saves more than 40% of electric current compared to traditional machinery.

Moreover, CNC can be shut down right after it is done processing

without having to stay on standby mode that wastes energy.

ABM Woodworking Machinery's NC hinge boring machine and NC construction system boring machine will feature in Wood Taiwan. These are extremely userfriendly, where it only takes operators less than 10 minutes to familiarise themselves with the machines.

The next-gen automatic edge banding machines developed by E-Chain Machinery are multi-functional, automatic machines suitable for straight, inclined and partially inclined edges. They not only save energy, but also improve work efficiency.

Tai Chan is one of the leading manufacturers of PC control high speed panel saw. It has developed twin pusher system with optimised cut function and in-feed system.

Panel saws are used not only for wood processing, but also for processing and cutting a wide range of materials. They are the best energy-saving solution that has better performance, stability, capacity, and efficiency.

For registration, visit https://www. woodtaiwan.com/en/index.html.

WoFX wraps up its third edition



World Furniture Expo (WoFX) held from 17-19 November 2022 at the Bombay Exhibition Centre (Mumbai), wrapped up successfully with more than 9,500 industry professionals visiting the event from all over the world.

With India emerging as the fastest growing market for furniture and the fourth-largest consumer of furniture in the world, WoFX is positioned as a platform wherein the entire industry, whether from India or abroad, can interact, collaborate, and exchange market information and design ideas.

WoFX featured a high proportion of international exhibitors with large pavilions, as well as Indian market leaders, showcasing a comprehensive product range of trendy and in-demand products.

Over 140 brands and manufacturers from Italy, Turkey, Singapore, Malaysia, Indonesia, Thailand, Vietnam, China, Bangladesh, USA and India participated and met buyers to explore business opportunities in India.

The concurrent events organised during the course of the expo saw a large number of industry professionals such as architects, interior designers, furniture and fittings manufacturers, consultants, etc. participate in the full day seminars, creating a platform for large number of direct B2B meetings between exhibitors and professional buyers.

For more information, visit www. wofxworldexpo.com.



Barberan's DeepBlue EIR Digital Technology

machinery for **Deco & Flooring**







FOR WOOD

09-11 February

EVENTS CALENDAR

Venue: PVA Letnany, Prague Exhibition Centre, Czech Republic

The 15th edition of the trade fair, focused on wooden buildings, construction and materials, puts spotlight on the use of timber in the construction industry and responds to the growing public demand for wood construction. Every year it presents technological innovations and modern materials, making it possible to propose demanding structures and structural elements of wooden buildings.

www.for-wood.cz

SALON BOIS

09-11 Februarv

Venue: Espace Gruyère, Bulle, Switzerland

Held every 2 years, the platform brings together under one roof exhibitors active in the field of wood from all over Switzerland. It offers on more than 5,000 square metres, everything needed by those who wish to build, transform, renovate their house, as well as the complete equipment for joiners, carpenters and cabinet makers.

www.salonbois.ch

THE BIG 5 SAUDI

18-21 February

Venue: Riyadh Front Exhibition & Conference Center

The Big 5 Saudi focuses on construction products, building materials and equipment, construction material and designs, and everything associated with the industry. It is a huge platform that displays good quality and innovative construction products. It also conducts seminars, conferences and workshops. The platform is also open to educational events and creates excellent opportunities and possibilities for marketing.

www.thebig5saudi.com

AFRIWOOD-TANZANIA

23-25 February

Venue: The Diamond Jubilee Expo Center, Dar-es-Salaam

The event brings together decision makers and influencers, as well as technical experts and professionals, from leading companies involved in wood machinery and tools, furniture machinery, materials and supplies, within Africa and around the globe. Exhibiting at this event will allow you to showcase your products and services to the industry's largest gathering of qualified decision-makers.

www.expogr.com/tanzania/woodexpo

International Furniture Fair Singapore

01 March 2023

JAN - FEB 2023

Venue: Marina Bay Sands, Singapore



The International Furniture Fair Singapore (IFFS) has established itself as Asia's premier sourcing platform and design-led exhibition. After over 30 years of successfully hosting this leading platform for the global furniture industry, the event remains the most distinctive channel in Asia, dedicated to regional and international companies looking to penetrate the global market.

www.eventalways.com/international-furniturefair-singapore-iffs

Malaysia International **Furniture Fair**

01 - 04 March

Venue: Malaysia International Trade & Exhibition Centre (MITEC)

MIFF is the No. 1 furniture fair in South-East Asia and is consistently ranked amongst the top 10 worldwide. The event takes you right into the heart of the furniture industry in the thriving ASEAN economic ecosystem, connects you with important contacts in the industry, and uncovers new ways to prosper your business.

DELHIWOOD

2-5 March 2023

Venue: India Expo Centre and Mart, Greater Noida

This is the 7th international trade fair for furniture production technologies, woodworking machinery, tools, fittings, accessories, raw materials and products. The event once again continues to build on its position as the leading expo in South Asia for furniture production technologies, woodworking machinery, tools, fittings, accessories, raw materials and products in the country.

www.delhi-wood.com

DUBAI WOODSHOW

07-09 March 2023

Venue: Dubai World Trade Centre (DWTC)

Dubai Woodshow is the premier destination for wood specialists and is the region's only dedicated business-to-business meeting place for the wood, wood accessories and woodworking machinery industry. The trade show provides a perfect platform for suppliers, manufacturers and machinery companies to showcase their products, innovative technologies, production scenarios and large-scale machinery to key players in the wood and woodworking machinery industry in the Middle East and North Africa regions.

www.dubaiwoodshow.com

MEM INDUSTRIAL

07-09 March 2023

Venue: Centro Citibanamex, Mexico City

This expo provides a high-impact showcase of the latest machinery, materials, products and new developments within the international furniture industry. Face-toface encounters amongst industry professionals, manufacturers, distributors and suppliers foster open communication where all questions get answered. The value of attending is that, this is a "tried and proven" means of establishing new contacts, opening new markets and increasing sales volumes.

www.memindustrial.mx

VIFA EXPO

08-11 March 2023

Venue: Saigon Exhibition and Convention Center

VIFA Expo is a specialised fair for promoting and exporting furniture, home décor products and handicraft from Vietnam, and is the largest furniture fair in the country and one of the leading furniture fair in ASEAN. The event is the meeting point for all international furniture manufacturers and buyers, and is a launching pad for Vietnamese furniture manufacturers to promote their products.

www.vifafair.com

CIFM/ INTERZUM GUANGZHOU

28-31 March 2023

Venue: Canton Fair Complex, Guangzhou, China

The expo is Asia's most comprehensive woodworking and upholstery machinery, furniture production and interior décor trade fair and is the most influential trade fair for the furniture production, woodworking machinery and interior decor industry in Asia. The event is held in conjunction with Asia's biggest furniture fair, China International Furniture Fair. Industry players from around the world take the opportunity to build and strengthen relationships with vendors, customers and business partners.

www.interzum-guangzhou.com

https://2023.miff.com.my





PASSIONATE ABOUT PANELS

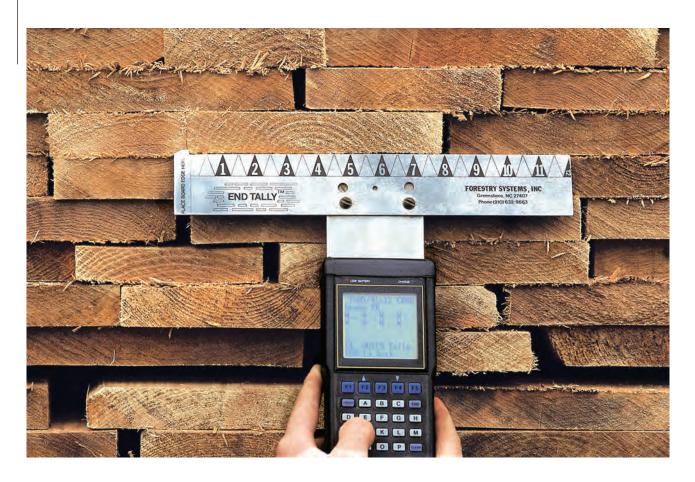
VISIT US AT: DELHI WOOD EXPO



www.praveedh.com

TECHNICAL MATTERS

Trading with grading



EDUCATION

The important, and growing, trade in US hardwood lumber to India (and anywhere else in the world, for that matter) relies totally on the established grading rules for hardwood lumber.

The National Hardwood Lumber Association (NHLA) grading rules provide both the buyer and seller with a consistent language to use in specifying hardwood lumber transactions.

While the NHLA rules were originally intended for the US marketplace, a reasonable knowledge is essential for buyers worldwide in order to attain their expected degree of quality and the grade of lumber purchased by a manufacturer.

Here, experts from the American Hardwoods Export Council (AHEC)

explain the importance of understanding the NHLA rules for grading American hardwood lumber, and answer frequently asked questions received during the past few months:

We buy FAS Red oak that is sold to us 80/20. Can you explain what these numbers mean?

Normally these numbers represent the percentage of FAS grade and Selects or FAS-1F grade in the shipment. In this case, 80% of the lumber is FAS and 20% is Selects, or FAS-1F.

Quite often I am quoted prices based on grades that I cannot find in the NHLA Rule Book, such as Prime and Comsel. Can you explain these?

First, we'd like to compliment you for trying to read and apply the NHLA Rule Book. This is no easy task and your efforts will surely be rewarded in the quality of the lumber you purchase! Prime and Comsel are grade names that have evolved over the years primarily for export shipments. They each represent levels of quality in the same regards as the NHLA grades of FAS and No.1 Common.

The confusion in receiving pricing for these and all grade names other than the NHLA grades is that they may vary from one supplier to the next. A simple way to deal with these quoted grades is to ask the supplier how they relate to the written grades from the NHLA.

Prime may be a 5-inch and wider allowance for one supplier and a colour sort for another. A good solid relationship between you and your supplier is essential in maintaining the level of price and quality that both parties will be satisfied and successful with.

Why are there no export grades in the NHLA Rule Book?

FE HOMAG

Cutting optimization & label printing for ANY Panel saw & Beam saw

Save material, print labels, and always have an overview.

Cutting Production Set for any & every saw including the HOMAG machines. A truly universal solution that caters to all your woodworking needs.

0

080 69495656
Info-India@homag.com
www.homag.com

TECHNICAL MATTERS



The NHLA has a set of standard grades which are widely taught, published and readily available. If buyer and seller prefer to deviate from these standards, they can use a common language and virtually write their own grade specifications.

It may be as simple as allowing a 7-foot-long or a 4-inch-wide FAS board. This is done by numerous companies both in the US market and the export markets worldwide.

In fact, the NHLA encourages its members to use the framework of the rules in this way. This promotes the entrepreneurial spirit of the industry while providing a common language to refer to. Can you give some easy conversions for moving between the metric system and the US system of inches and board feet?

Yes, it can be confusing. Fortunately, almost all exporters are willing to quote prices in cubic metres or even cubic feet, so the quantities of an entire shipment should be no problem.

When it comes to calculating the grade of individual boards, a good guesstimate for FAS is 80% and better clear, for No.1 Com 60% and better clear, and No. 2 Com use 50% and better clear.

In determining if a board with slight cupping will surface two sides (S2S) to standard surface thickness, a 1-inch (25.4 mm) board must be S2S at 13/16 inch (20.6 mm) and a 2-inch board (50.8 mm) must S2S to 44.5 mm.

All other thicknesses must surface proportionately. Here are some other useful conversion factors:

- 1 inch= 25.4 mm
- 1 metre= 3.281 feet
- 1,000 board feet (1MBF)= 2.36 cubic metres
- 1 cubic metre= 424 board feet (BF)
- 1 cubic metre= 35.315 cubic feet (cu ft)
- One lineal foot= 0.3048 metre

You can fit approximately 12,000 board feet of kiln-dried lumber into a typical 40foot container. This would convert to around 30 cubic metres, depending on the species, thickness and length distribution.

For more information on American hardwoods and to learn more about different species and grades, please visit: www.americanhardwood.org



Natural Selection

Grown in America and exported all over the world, the carbon stored in U.S. hardwood at the point of delivery to any destination port in the world almost always exceeds the carbon emissions associated with extraction, processing and transport.

For more information visit:

- 🛞 www.americanhardwood.org
- india@americanhardwood.org
- 🕓 +91 6360 153 915
- O AHEC_India





TOTAL SOLUTIONS FOR WOODWORKING Growing the Industry & Growing with the Industry

20 years of TRANSFORMING THE WOODWORKING INDUSTRY

WOODTECH CONSULTANTS PVT. LTD. #37/1, Nadakerappa Industrial Estate, Andrahalli Main Road, Near Peenya II Stage, info@woodtech.in

YOW CHERNG

CABINET VISION

HEXAGON

COSTA

B BARBERAN

KÔT

CARVING THE FUTURE WITH CUTTING EDGE TECHNOLOGY

WOODTECH is an integrated end-to-end solutions provider for the Solid Wood, Panel Wood and specialized Wood products. Our service portfolio includes Consulting, selection and suggestion of the right machinery, preparation of layout plans, installation, testing and Commissioning, providing training to the machine operators, after sales support, repairs and supply of spares and consumables.

WOODTECH has a vision to take the Indian Wood Working Industry to a very high level on par with International Standards.

WOODTECH with a young team is committed

WOODFILCH

CNHF

INNOVATOR INNOVATOR MACHINERY CO., LTD. to the future, to bring all the latest technologies that are available around the world to the Indian Market.

WOODTECH

GIVING NEW DIMENSIONS TO WOOD

Our Mission is to provide world class features and innovative equipment to the industry to ensure a seamless process. With the help of our team work and dedication, we strive to provide quality oriented service to our clients.



ORFX

GOODTEK

RAPH CONSIDER STREET STREET STATE

Vishwaneedam Post, Bangalore - 560 091. Tel: +91-80-2836 4584/85, Fax: +91-80-2836-1166 Email:

Anderson Group

Printing paper for decorative laminates

T.K. UNNIKRISHNAN



Design papers or decorative papers form one of the most important paper layers in decorative laminates. This is either the top-most layer or the second layer of paper from the top, depending upon the type and grade of the decorative laminate.

The paper, generally used for printing designs, is called base paper. Base papers are loaded with titanium dioxide to give opacity to them. The industry uses two types of printing: roto-gravure printing and silk-screen printing.

Roto-gravure printing is carried out by multi-colour printing machines with three or four printing stations in the same line, assembled one after another. The machine has a paper roll mounting unit along with an unwinding unit fitted with brakes and other controls to ensure proper release of paper while it is being printed.

A tension control unit is also attached to the machine in order to ensure proper and uniform tension on the paper while paper runs on the machine during printing. Improper tension will lead to slackness of paper, resulting in paper snaps or paper brakes.

Photo-etching

Each printing station has a printing

Example of decorative laminates from Centuryply used for the wardrobe doors.

cylinder, which is engraved with the type of design desired by the designer. Each printing cylinder is engraved in such a way that the first, second and the third or fourth are properly aligned to each other in the longitudinal and circumferential directions (cylinder registration), so that there is no over-printing of design on the paper.

There is a rubber pressure roll attached parallel and adjacent to the printing cylinder which helps to impart the printing ink from the engraved cylinders to the paper to provide the printed design and impression.

An automated photo-gravure line (top) with several printing stations. A cylinder undergoes photo-etching (bottom) to prepare it for printing.



Everything is evolving.

We simplify your manufacturing process to empower your business.



Discover what's new.



biesse.com



A scraper blade is fitted close to the printing cylinder and in constant touch and contact with the cylinder during printing, which enables the cylinder to have controlled transfer of printing inks on to the paper.

The function of the scraper blade is to scrape off excess printing ink from the cylinders, allowing just the necessary quantity within the engraved cell of the printing cylinder. Any additional ink on the cylinder will otherwise be passed on to the base paper where it is not needed.

There are registration marks on the edge of the cylinders, and during printing, these adjustments are made and corrected. When the registration marks of all cylinders coincide with one another, it can be summarised that all the three or four cylinders are registered to each other and the printing is perfect from this angle.

Colour matching

Fully automatic and computerbased registration technology is available now on all machines, which gives very accurate registration for all printing cylinders. This not only saves time but also avoids generation of paper and printing ink waste, which would take place during manual registration.

There is a moveable tray for printing ink that coats the cylinder(s), which then Transfer it to the paper. Every printing station is fitted with a drying chamber, to prevent wet inks getting mixed up at different printing stages leaving and to avoid wet smudges and patches. A semi-automatic silk-screen printing line comes fitted with winding units, tension adjustment devices, drying systems and vacuum fitted tables.



The printing machine is also fitted with a web aligner, an arrangement to ensure that the winding is straight and the paper rolls do not become a cigar-shaped one. Web aligners are fitted with photo-cell arrangement or are monitored with sophisticated electronic controls.

One of the most important areas in the process of printing is colour matching. Each batch of printing should match exactly all other batches in colour and shades. Absence of colour-matched material may not be acceptable to the customers. The speed at which the paper is printed, and the contact time of ink with the paper, are also important factors.

There are many variables involved in this procedure: matching of base paper and printing inks – these are now done using computers as in the case of the paints industry. However, perfect colour matching is not an easy task.

Apart from computerised colour matching arrangements, the human eye, experience and judgment play important roles.

Inks & cylinders

Printing ink preparation also is an important factor to achieve good printing results. Organic, and in certain cases, inorganic pigments are used to make printing inks, along with other additives such as extenders and binders.

There are two types of printing inks: water-based and alcohol-based. Alcoholbased inks are more suitable because these inks dry a lot faster. The viscosity of ink solution is also an equally important factor: above- or below-optimum viscosity may lead to low or high ink adhesion to the base paper, leading to illmatched colours and tones.

Roto-gravure type printing cylinders come in different diameters. Wood grain design cylinders and natural marble patterns will naturally have a larger diameter due to the wood grain length or length of marble grains.

Other designs such as stripes, squares, dots, flowers, chips, stones, etc. have cylinders of smaller diameters. These cylinders are made through a process of photo-etching.

These cylinders are either of pure copper, or they are clad with copper plates, where the engraving is done. They are chromeplated to ensure longer life and to resist corrosion from acidic ink types.

Screen printing

Silk screen printing, commonly known as screen printing, is an age-old technology that has been extensively used by the textile industry. The decorative laminates industry borrowed this from the textile printing by making some modifications and adaptations.

Manufacturing of mural paintings and special effects are better provided through manual screen printing, as compared to the roto-gravure process.



Screen printing is done on long tables, having a length of around 200 feet, which can accommodate more than 20 design papers of 8 feet length. The printing inks are based on starch, which is used as a binder for the pigments.

Unlike roto-gravure printing, the printing ink is now in the form of a thick paste. The screens are made from very fine mesh nylon fabrics, allowing the transfer of inks from the screen to the paper in a limited and required manner.

The selection of nylon fabric of correct mesh size is of paramount importance. These screens are made by a process similar to photo-etching, but the printing process is completely manual.

The paper to be printed is laid on and secured to the printing table. The screen, fitted to a frame, is placed on top of the paper and the ink is poured on the top edge inside the screen. A rubber squeeze fitted on a frame with handles is used for the actual printing operation.

The squeeze is drawn downwards with the ink by applying uniform medium pressure to the transfer the ink from the screen to the paper. This process is continued for the whole table. There are single coloured and multi-coloured printing, up to a maximum of three colours.

It is, therefore, very important to ensure the right thickness and viscosity of the ink, depending upon the mesh size of the nylon fabric. Since the inks used are thick, drying of the inks on the paper is a slow process. Fans or hot air circulators are used to achieve faster drying. Dried paper can now be rolled comfortably and the printing process is continued.

Screen printing tables, fitted with automatic unwinding and winding units, along with tension adjustment devices, are now available in the market. Overhead hot air drying systems with height adjustments, vacuum fitted tables, sophisticated fast drying ink formulations are also available to the industry.

Manufacturing of mural paintings and special effects can be provided through screen printing, while there are limitations in the roto-gravure printing technology for the creation of such special designs and prints.

(To be continued)



-The writer, who passed away recently, was an expert in chemistry in the highpressure laminates industry, with 55 years' experience. This is an abridged extract

from his new book, 'Chemistry & Technology of High Pressure Laminates'. This the third part of a series of articles that first appeared in the Sept-Oct and Nov-Dec, 2022, editions of WoodNews. To buy the book, write to ukjay41@yahoo.co.in.

NITSHAW

10+ years of sales & services excellence in woodworking & furniture industry.





NITSHAW Wood Panel & Surface Technologies Pvt. Ltd.

B-175, 4th Main, 2nd Stg, Peenya Industrial Area, PH IV, Bengaluru: 560055, India. Ph: +91 80 28510199, +91 8792731778. Email: info@nitshaw.com Web: www.nitshaw.com

Felder walks the talk

When the leading machinery supplier decided to upgrade its India headquarters, the company wanted to prove a point to its existing and prospective customers in the country. In a first, the Austrian technology provider devised a project that would showcase the sawing and milling capabilities of its own machines to fabricate the office furniture and interior and exterior wood elements in its new experience centre in Mumbai. WoodNews went behind the scenes to uncover the project's design directives and production processes.



The geometry of the South-facing façade is broken with a coloured, slanting entrance portal (L) with vertical aluminium-clad fins to cut out excess light and heat. A 650-kg, 8-metre arch (R) made from Yellow cedar from British Columbia, Canada, was milled on Felder machines.

DHANANJAY SARDESHPANDE

The proof of the pudding is in the eating – so goes the popular English idiom. Felder India, a wholly owned subsidiary of Austria-based Felder KG, has taken it literally and is proving a point: that its machines can do what the company claims they can achieve!

When Felder chalked out plans early last year to set up its India headquarters – complete with demo centre, warehouse, sales and service offices – it decided to put the 4,700-square-foot premises to good use. It sits on a picturesque industrial plot in Vasai, on National Highway-8, on the outskirts of Mumbai.

At its formal inauguration in December 2022, one message was amply evident: **>**

NOODNEWS

42

You create the special room experience PerfectSense[®] Feelwood lacquered boards

Inspire your customers with our product innovation **PerfectSense Feelwood lacquered boards**. For the first time, we combine a **matt**, **velvety-warm lacquer finish** with **synchronised textures** and **anti-fingerprint property** on a sustainable woodbased coreboard. For further information please contact india@egger.com Shown in the photo: PerfectSense Feelwood lacquered board in U999 TM28 Black

» Everything about the product innovation at: www.egger.com/perfectsense-feelwood

MORE FROM WOOD.

ľ.





what you see (woodwork in the office, lobby and VIP lounge) is what you get (by employing Felder machines)!

Mr Hansjorg Felder, Managing Director and Chief Executive Felder Officer, Group KG, the India inaugurated headquarters. The guest of honour was Mr Hans-Joerg Hoertnagl, Trade Commissioner and Commercial Counsellor, Embassy of Austria.

Mr Krutik Mistry, Director, Felder India, says the new premises have already set tongues wagging. Several business visitors have evinced keen interest (and sometimes disbelief!) at the capabilities of Felder's woodworking machines.

The facility has been planned to become a skilling centre as well, with infrastructure to train entrylevel machine operators to factory managers. Krutik spoke about near-term plans to set up a separate vertical for training and upskilling – not only for professionals in India, but also from SAARC and South-East Asian region.

Design intent

Felder India engaged the services of Wiseart Design Studio LLP – a husbandwife collaboration of architects, designers and furniture manufacturers in Mumbai – to bring to life its vision for its new premises, totalling 20,000 square feet.

Wiseart runs its own, 40,000-square-foot furniture manufacturing factory in Dombivli, Thane district, to cater to its vast portfolio of home and commercial projects across India. Needless to say that, among its woodworking machines there are those from Felder also.

The scope of work included designing the façade of the industrial shed, the interiors, the furniture and its manufacturing. According to Ms Shrutika Nilakh, Co-founder and Principal Architect, Wiseart Design Studio, the design intent was to create accents of wooden installations, to display the craft and precision of modern machines in Felder's range of woodworking solutions.

"We used solid wood and birch ply to showcase the enormous way wood and ply can be treated, built and exhibited in daily use of elements and objects," she said. "The office becomes a display extension of the experience centre, where the customers get the vision and understand the output that the machines can achieve to create different design elements."

The existing industrial shed faces South, which required fenestration with tall, vertical aluminium-clad fins to cut out the excess light and tropical heat. The geometry of the façade was broken with a coloured, slanting entrance portal.

But the gem is the installation of a wooden arch spanning 8 metres. It consists of 27 pieces each and 20 rows of milled slats of Yellow cedar from British Columbia, Canada. The arch weighs 650 kg, with the entire installation held together by wood dowels.

The arch is a stunning example of Felder machining greeting you, even before one enters the experience centre to explore more! While the project was designed on Auto CAD, the manufacturing employed SolidWorks in the factory setting.

> The emphasis in the office space (L) is on unconventional elements that showcase the true mettle of Felder machines in sawing, milling and finishing of solid and panel-based furniture. The curvilinear fins (R) of the 'meeting pods', fashioned from Western hemlock, have a remarkable machine finish.





SPRUCE UP YOUR INTERIORS WITH

TECHNO MATT-SRT SCRATCH REMOVAL TECHNOLOGY

Aryamman Interior Solutions Pvt. Ltd.

- Ø B, 19 Pravasi Industrial Estate, Off Aarey Road, Next to Durian Estate, Goregaon East, Mumbai - 400069.
- **L** +91 9820064060
- dhaneshbhatia@aryamman.in
- www.aryamman.in



KITCHEN AND FURNITURE FITTINGS



Sit. Stand. Walk.

Work at ease, as you please.



Scan the QR code to explore the complete furniture fitting range

Presenting OZONE MOTORISED TABLE





Vertebrate

Enjoy freedom from fixed tables & an unhealthy sedentary life. Now choose your work mode - sit down, or stand up to lead a healthy work life. What's more? Well, you can even squeeze your treadmill into your work routine.







Anti-collision and safety sensors Load support up to 120 KG

🕲 09310012300 | FOLLOW US ON 👎 🞯 🎔 ท



KITCHEN AND FURNITURE FITTINGS

CELEBRATE BEAST OF A PERFORMANCE WITH THE BEAUTY OF AESTHETICS

A beautiful kitchen is just half the story. It needs to deliver a robust performance to become a cause of celebration. Ozone Kitchen Fittings enhance the aesthetics of kitchens without compromising on strength and durability. Experience the perfect combination of top of the line performance & beauty enjoyed by countless homes in India.









OUR PRODUCT RANGE

- ERGOTEC DRAWER SYSTEMS TELESCOPIC CHANNELS
- CONCEALED HINGES TALL UNIT CORNER UNITS LIFT-UP SYSTEMS
- BOTTLE PULL-OUT ROLLER SHUTTERS DRAWER ORGANISERS





HUM SAB SAMBHAL LENGE

WINNING THE HEARTS OF OUR CUSTOMERS WITH TOP-OF-THE-LINE PERFORMANCE

zone is the leading player in Architectural Hardware and one of the rising popular brands in the Electronic Security Segment and provide innovative & technology-oriented solutions to architects, builders, specifiers, and homeowners across 20 countries. Our world-class products are built to last, and serve you flawlessly and reliably.



Ozone & the Indian Kitchen Connection - unlike any German Kitchen when it comes to use

While most brands focus on the concept & décor of German Kitchens, Ozone has worked up its way into the hearts of Indians with its focus on performance in the Indian kitchen and context. All family members use kitchen extensively, and not everyone has a delicate hand. Some pull gently, others push with a punch, some have the habit of kicking and closing shelf doors, while others use cudgels to open drawers. And it is not uncommon to find children sitting inside kitchen drawers and having fun. These factors put a lot of stress and pressure on kitchen accessories which not all brands can handle.

Hum Sab Sambhal Lenge

Contrary to the 'use with caution' statutory warning that comes with most other brands, Ozone goes all out and plays on the front foot. Now you can go ahead and use the kitchen the way you are used to handling it. We are there to handle all kinds of pressures you exert on us.

Our products are tough enough to withstand any and every kind of use. This reassurance of ours is not just a claim but backed with the confidence of our product quality, and the high-grade materials we use. It comes from our extensive and rigorous quality control processes and testing that we carry out for thousands of cycles. More than our adverts, it is word of mouth that sells our products. We have won the hearts of our customers purely on the quality and performance of our products.

Why Ozone Products?

Ozone has a certified track record of delivering high-performance products backed with reliability and durability. They are designed keeping in mind the typical requirements of the Indian kitchen and can withstand all the use and misuse scenarios. While we can't reduce your kitchen workload, our products take off your load of worries on performance, durability and costs. So that you can enjoy complete peace of mind.



Get in touch for any product related queries: Ozone customer care: +91 9310012300 (Call/WhatsApp), Visit: www.ozone-india.com



KITCHEN AND FURNITURE FITTINGS



FIT YOUR WHOLE WORLD IN

SAVES SPACE. STAYS STRONG.

Live an organised life with Ozone Wardrobe Fittings. With optimum usage of wardrobe space, soft closing, super-efficient cabinet systems, these accessories offer maximum versatility with wide range of products. It's time you opt for smarter storage solutions.







RATTAN BASKET



PULL-OUT SHOE RACK



PULL-OUT HANGER-DOUBLE





SOFT CLOSING





Scan the QR code to explore the complete Wardrobe Accessories range





The happy Felder India team after the inauguration with its India Director, Krutik Mistry (fourth from left), and Felder KG Managing Director and CEO, Hansjorg Felder (in blue coat).

Other highlights

Mr Mahesh Nilakh, Founder and CEO, Wiseart Design Studio says, "From design to execution, it was important to talk of Felder's story in terms of being a technology provider, working with various materials, and the variety of applications its machines can perform."

Mr Harshal Turkar, Wiseart's Director of Operations, adds that the execution journey was a continuous process of keeping a close eye on design and cost within the given timelines of the project. In keeping with the design requirements, the metal-mounted staircase has been fashioned out of Western hemlock for its treads; the hand rails and balusters have been milled from spruce-pine-fir and Douglas fir; and employs coloured glass panels to break the monotony of the wood-clad structure.

Fashioned from Felder machinery are two more gems that greet you at the entrance of the office floor. These are two pods fashioned from Canadian Western hemlock. The curvilinear fins that make up these "meeting rooms" have a magical appeal and remarkable machine finish.

Shrutika says the aim is to create a breakout space where employees can relax, or hold informal meetings – or use these pods as foosball gaming islands! These pods are designed to be assembled and dismantled to suit the customer's requirements. These have already been exhibited at various trade shows, including IndiaWood 2022.

Curated furniture

The mezzanine floor has a coffee lounge overlooking the experience centre to enhance the guest experience. The wood cladding makes for a warm lounging and discussion space.

> The coffee bar (L) and the conference room (R) use wood for warm lounging and discussion spaces.





Your Italian Autograph...



AUTOGRAPH YOUR WITH THE PREMIUM TOUCH



(恩)



The Wiseart Design Studio team comprised of (L-R) co-founder Shrutika Nilakh, Architect Joyce Nistala and Operations Director Harshal Turkar.

The office space itself has been kept simple: the cabins run along the façade and overlook the warehouse. The emphasis is on unconventional elements that showcase the true mettle of Felder machines in sawing, milling and finishing of solid and panel-based furniture.

Apart from Canadian wood, Birch plywood was chosen for the workstations and credenzas that seat Felder's employees. "Birch ply has a wooden character," Shrutika notes, "Along with soft shades of laminates the character of wood is highlighted in the overall design theme."

Birch ply has been used to make workstations, table-tops, partition panels and storage units. The larger surfaces have several motifs to break the monotony of the panels.

What is important is that the edges have been left raw on purpose and (seemingly) exposed. However, they are protected with a sealant coating to prevent moisture ingress and have a clear matte polish, which enhances the feeling and look of the plywood.

Felder's outlook

The warehouse and experience centre on the ground floor house Felder's offerings in the India market. Krutik counts sliding table and beam saws, spindle moulders, edge banders, drilling and sanding machines among them.

The staircase uses Western hemlock, Spruce-pine-fir and Douglas fir, and employs coloured glass panels to break the monotony.

There are the PLC-based classic range of machines, as well as CNC machines – including 5-axes routers – belonging to the Felder, Format4, Mayer and Hammer brands. The warehouse can stock up to 250 of these machines.

Apart from the Vasai headquarters, Felder India has sales and service offices in Bengaluru, Chennai, Noida, Hyderabad, Ahmedabad and Bhubaneswar. It also has a tie-up with Hexagon's Alphacam computer-aided manufacturing system.

According to Krutik, most of Felder's business comes from customers setting up new factories. "Our advantage stems from our consulting approach to the woodworking industry – we offer end-toend solutions," he adds. The business scenario is looking up and "most of our customers' plates are full", he says.

The Covid-19 pandemic disrupted supply chains, but now the environment is conducive to growth of the furniture



sector, with architects and interior designers sourcing furniture from domestic suppliers.

Many existing manufacturers are expanding and upgrading their infrastructure, Krutik says, adding that access to funds for capital goods investments has eased and banks are sanctioning working capital, even at the regional level.

However, he notes, the unorganised and fragmented nature of the furniture manufacturing sector hampers its image and dampens its prospects of attracting large investments.

With so much to show off at home, it would not be incorrect to say that Felder has indeed made its point crystal-clear! To schedule a visit to the new facility (open Monday to Friday, 10 am to 7 pm), or for more information on Felder India's training and upskilling programmes, call its hotline: 18002743040.

Diamaster PRO, PRO³ and PLUS³ Nesting Router

For Higher Productivity and Quality





At a Glance

- Diamaster PRO Z2+2: Resharpenable up to 3 times, diameter 10-16 mm, perfect for Nesting applications
- Diamaster PRO[®] Z3+3: Resharpenable up to 3 times, diameter 12-16 mm, perfect for Nesting applications
- Diamaster PLUS^{*} Z3+3: Resharpenable up to 12 times, diameter 16-20 mm, perfect for large batches
- Suitable for all conventional panel materials
- Diamond tipped

- **Your Benefits**
- Higher feed speeds
- Longer tool life
- Perfect quality of edge
- Lower Processing Cost
- Efficient chip removal



Leitz Tooling Systems India Pvt. Ltd,

No. 486C, 14th Cross, IV Phase, Peenya Industrial Area, Bengaluru – 560058. Telephone: 080-42833000, 28364834 e-mail: info@leitzindia.com, www.leitzindia.com



Another window of opportunity for industry



The rising domestic demand for modern interior furniture and furnishing, as well as the growth of residential construction and projects in the hospitality sector, are some of the factors bolstering the Indian furniture market. Easy availability of furniture through online and offline distribution channels is also fuelling industry expansion across the country.

Leading players from the woodworking and furniture manufacturing segment will converge on DelhiWood 2023 (at India Expo Centre and Mart, Greater Noida, from 2nd to 5th March) to meet numerous national and international decision-makers, acquire new customers, and discuss key issues during the 4-day trade show.

Furniture manufacturing in India is morphing into an organised industry to



Panel Process Machines & Solutions

BEAM SAW

Your Smart Cutting Solution



J-280.in (Semi-Auto)

- 3 Front air floating tables with blowers for easy and smooth movement. (Optional)
- Maximum cutting thickness up to 60 mm. Can cut 3 panels at a time.
- 10 Hp heavy duty main saw motor.
- Saw carriage has variable feed speed for different applications.
- Easy accessible user friendly control panel for easy & quick operations.

Jai Industries Ahmedabad- 380 023, Gujarat, India. Contact: +91 74860 10345 modula@JAlindustries.com



Made in India. Made for India.







www.JAlindustries.com

adapt to fast changes in the furniture market. India is the fifthlargest furniture producer at a global level, and the fourth-largest consumer of furniture.

The market was valued at US\$ 17.4 billion in FY21 and is predicted to reach US\$ 37.7 billion by 2026, growing at a double-digit CAGR of 13.37% during 2020-2026.

The 2019 edition of DelhiWood saw participation from more than 500 brands from 35 countries, spread across 11 country pavilions, and offered a 360-degree view on global trends from the woodworking industry.

Furniture and kitchen manufacturers, architects, interior designers, timber traders, saw millers, builders, contractors, hardware distributors, dealers from all over the country and neighbours such as Nepal, Bhutan, Sri Lanka and West Asia were participants.

IndiaWood 2022, which took place at the Bangalore International Exhibition Centre, had an impressive turnout of over 850 exhibitors from 50 countries, five dedicated country pavilion, and more than 72,000 visitors from 1,143 cities and 30 countries.

Expo & conference

As a knowledge sharing forum, DelhiWood 2023 will feature multiple seminars on latest trends, technology development, material innovations, digitalisation, sustainability, skilling and supply chain management. These are being organised by leading industry associations.

The second edition of 'Wood in Architecture and Design (WAD)', a daylong conference, will be held on the 3rd March, bringing together architects, structural engineers, designers and masstimber manufacturers to explore the application of wood as a construction material.

A special skill development programme is also being organised by the Furniture and Fittings Skill Council of India on all 4 days of the show.

Sonia Prashar, Managing Director and Chairperson of the Board of NuernbergMesse India (the organiser) said, "The demand for wooden furniture in the Indian market is mainly driven by the residential sector.

"The wood furniture market in India is competitive due to the presence of a large number of small and local manufacturers in the market, accounting for a larger share in production. We are confident that DelhiWood will succeed in providing the relevant technologies and solutions to meet the demands of this sector," she added.

Sivakumar Venugopal, Group Director, NuernbergMesse India, had this to say: "Favourable policies and an encouraging ecosystem are giving rise to new business investments across the sector. DelhiWood 2023 will offer unprecedented opportunities to all stakeholders in the furniture manufacturing industry."

The India Mattresstech+ Upholstery Supplies Expo (IME), being held concurrently, will have on display the latest technology for mattress production machinery and supplies, mattress finishing machinery and supplies, production tools and equipment, upholstery production technology, bed systems, new materials, etc.

For further information, write to Pradeep Kumar Gopal (Portfolio Director) at pradeepkumar.gopal@nm-india.com.





E-mail: info@kalyanindustries.com

EMC makes sanding a fine art

EMC Italia is a pioneer of wide belt sanding machines across the globe. Its Planar sanding system is an innovative method patented by EMC that enables high sanding standards to be achieved.

The system is integrated in the Plano machine, a multi-purpose sander for multi-directional super-finishing. The contact between the panel and the abrasive belt is made on a perfectly flat surface, so that the contact between them takes place on a perfectly flat surface and the sanding is planar, i.e. uniform over the entire surface.

With this system, once the panel is inserted in the machine, it is as if it were "gliding" over the abrasive rollers. The result is the Plano

machine, which was developed to fully incorporate this innovative, patented sanding system.

The particularity of the Plano lies in the rotary sanding system, which combines three different systems that include a wide sanding belt, two fixed electronic pads and the rotation of the entire sanding unit in a single movement.

This method is the result of normal sanding systems, on which intervention is made by modifying three dimensions if necessary: the speed of the belt, the pressure of the pads, and the speed of the sanding belt.

The new planar method adds a fourth "dimension" that can be modified: the speed of the rotary unit which determines the sanding effect on the panel. The result is sanding in 4D.

This new procedure completely changes the dynamics of the sanding process because, while in the traditional one it is the abrasive belt that enters the panel, in this system it is the panel that enters the belt.

This movement guarantees perfect sanding on all four edges of the panel, ensuring a perfect "radius edge" between edge and corner. In this way, there is no longer an infeed and outfeed of the belt on the work piece, but it is the work piece that "planes" on the belt.

The result of flatness, compactness, speed, simplicity, and economy is the Planar system, and from all this comes the Plano, a machine created and patented to fully absorb the system.

EMC Italia has tied up with Bengalurubased Arnavi Machines to make these wide belt sanding machines accessible across India. For details write to info@ arnavimachines.com.

Plano

SMANDOON 58





ONE STOP SOLUTIONS FOR

WOODWORKING MACHINERY

Experienced Wood Working Machinery Manufacturer in India





THROUGHFEED EDGE BANDING MACHINE

DIMENSION SAW WITH SCORING CUTTER



TWO SIDE PLANER





CNC ROUTER

AUTOMATIC BAND SAW 28"

WOODMASTER (INDIA) MACHINES PVT. LTD.

Head Office:

St. no. 7, Bachittar Nagar, Ludhiana-141003 Punjab, India **Mobile:** +91-98156-27422, 98782-20422 **Service Department:** 98760-63422 **Telephone:** +91-161-5034422 Pune Office:

Sr. No. 27, Burhani Ind. Estate (Near Excel Polymers) Kandohwa Budruk, Pune - 141048 **Mobile:** +91-90110-27422 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

New nesting solutions from Biesse

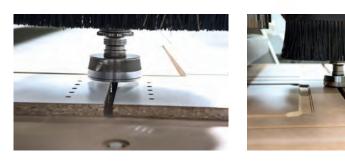
Biesse is launching its new Rover AS FT machine at DelhiWood 2023. It is a nesting machine that sports blistering positioning speeds and rivals beam saw production levels.

It is the machining centre for nesting operations, and is a highperformance machine that is compact and efficient and designed to evolve the production process to obtain top performance and productivity results.

With a gantry structure, it offers top-of-the-range technology and guarantees optimum precision in every machining operation. It enables users to achieve a finished, fully-machined product with a single machine.

In today's manufacturing environment, speed is of the essence. Speed, accuracy, and efficiency: these are three key drivers behind production efficiency. With this in mind, a brand-new version of the tried and trusted Rover A FT CNC flatbed machine has been developed.

It has an extremely robust and well-balanced structure, designed to handle demanding machining requirements without compromising on product quality.



The gantry structure with dual X motors is designed to increase precision and reliability standards for the execution of machining operations.

The reinforced transmission guides lend the machine greater rigidity, boosting the level of precision and machining quality. Higher motor power increases acceleration up to 4 metres per second and speed up to 105 metres per minute, minimising waiting and reducing cycle times.



Unique work tables

All Biesse FT tables can use the multi-zone technology that concentrates the vacuum in the locking areas, corresponding to the format of the most commonly loaded panel.

Today, two types of nesting table are available, based on different technologies, depending on the application and the end products are the FT PLUS and HFT.

E FACE OF RNITURE

The first impression

you have of furniture is its surface. Please feel free to choose:

senosan°

- > Premium high gloss films
- Anti-Fingerprint premium supermatt films
- High quality surfaces with glass effect

senosan[®] AM1800TopX Premium high gloss films



senosan[®] TopX GLASS and TopMatt GLASS High quality surfaces with glass effect



senosan[®] AM1800TopMatt Anti-Fingerprint Premium supermatt films





For further information please contact:



Mr. Harish Rajagopalan +91 99 8665 1517 / harish_r@senoplast.com Mr. Anil Apte +91 99 8090 3801 / anil_a@senoplast.com



FT Plus allows Biesse clamps to be used to hold solid wood elements or complex small pieces. The extensiveness and increase in payload provide maximum flexibility across machining operations. (Available on sizes 2231 and 2243).

The high vacuum of the HFT (high flow table) flow rate renders the work table ideal for machining operations on sheets with automatic loading and unloading.

The vacuum modules can be directly positioned on the support panel and the modules can be quickly and easily used, even without the auxiliary vacuum system, without compromising the hold on the panel.

Operating units

Biesse uses the same high-tech components for all machines in its products range. The electro-spindle boring head and aggregates are designed and manufactured for Biesse by HSD, the global leader in this sector.







It has electro-spindles for every application – up to 19.2-kW HSD liquid-cooled with automatic tool change HSK F63 1,000-24,000 rpm are available on the machine.

Tool change magazines with a total of up to 28 spaces are also available. All tools and aggregates are available at all times, removing the need for operator intervention for tooling when switching from one machining operation to the next.

There is also an easy access to the tool magazine and working unit, leading to reduced machine downtime.

To reduce the tool change set-up time and the possibility of operator error, the Rover AS FT is equipped with a contact presetter, which automatically determines the length of the tool and stores in the tool database.



India's Most Trusted Wood Working Machinery & Tools









WHY LICON

FREE SHIPPING ONLY FOR PCD

Factory

0

98, Shree Ram Estate, Anup Eng. Compound, B/H. CMC Follow Us On: perfect.mahesh@gmail.com



Extremely Low Noise Extended Life High Performance

Customer Care : +91 787 44 31 679

New Order : +91 9328203494 +91 9725000258, 079-22972929

perfecttoolsindustries

The machine can be configured with pendulum functionality to alternately process panels. This allows for loading or unloading during machining operations.

It can be offered with configurations to suit any type of production requirement: standalone, with loading and complete nesting-based cells.





In nesting-based cells, loading and unloading operations are carried out simultaneously, allowing the operator to remove completed components from the unloading station with utmost safety, while the machine is already processing the next panel.

The standard pushing system, with the loading pallet positioned close to the machine, ensures compact overall dimensions on the ground. The pallet with automatic labelling allows the stack of material to be replaced while the machine is working.

Rover AS FT can be integrated with the Winstore automatic storage that optimises management of panels. It ensures that the panels to be machined are easily accessible at all times, so it is possible to substantially increase cell productivity compared to manual loading methods using a forklift truck, without frequent stack changes.

Biesse machines are designed to enable operators to work in complete safety thanks to the new bumpers combined with photocells with no footprint or mechanical wear.

LED bar with five colours, showing the machine status in real time, allowing the operator to check the machine status at any point, and ensuring maximum

visibility of the working unit from any position.



Single software

B_Solid is a 3D CAD/CAM software program that supports the perfor-mance of any machining operation as a result of the vertical modules designed for specific manufacturing processes.

It simulates machining operations to visualise the piece ahead of manufacturing and have some guidance for the planning phase. Virtual prototyping of the piece helps to avoid collisions and ensure optimal machine equipment. The simulation also allows for a calculation of the execution time.



B_Nest is the B_Suite plugin specifically for nesting operations allowing the organisation of the nesting projects in a simple way, reducing the material waste and machining time. Its advantages include:

- Flexibility with reduced production times and costs
- Optimisation for every type of product
- Management of articles, sheets and labels
- Integration with company software

For more details, visit www.biesse.com.



ALPHACAM

Simple yet powerful CAM software for wood

By the numbers 45,000 Active users worldwide

According to the latest CMA Benchmark Study, more woodworkers choose our products than any other software system. In fact, it's not even close.

37 Years developing software

97% ီ

Satisfaction with our support

85/11 Countries/Languages

Our software can be found all over the world and it's available in 11 languages.

| alphacam.com

Download Brochure Here



CABINET VISION

The complete solution for the casegoods industry

From cutlists, renderings, shop drawings, bidding and pricing, to CNC output, CABINET VISION makes the easy jobs simple and the complex ones possible.

- Custom cabinet & room designs
- Photo realistic renderings
- Material Optimisation
- Full costing direct from design
- · Cutlists & bill of materials

cabinetvision.com

If you've got both CABINET VISION and ALPHACAM, there's absolutely nothing you can't make."

Mick Cotter Director Cumbria Kitchen And Bedroom Furniture

Meet Hexagon at Delhiwood 2023 Transform woodwork manufacturing with quality 4.0

Booth No. S 910 India Expo Mart in Greater Noida | March 2-5, 2023



DE)H

Register Now

Hexagon Manufacturing Intelligence c/o Vero India Software Pvt. Ltd.

1st floor, B wing,101-105, Sai Radhe, Kennady Road, Adjourning to Hotel Grand Sheraton, Pune, Maharashtra, 411001

Email: moazam.ahmed@hexagon.com ashwini.bobale@hexagon.com

Mobile: +91- 9845198874 / 8329141885

www.hexagonmi.com



THE ALL-ROUNDER WITH XL PROCESSING CAPACITY

The increasing demand for custom-made products in furniture, door and window production is providing a challenge for all workshops, above all smaller companies: Diverse profiles have to be produced with flexibility, efficiency and in several thicknesses, to be able to keep up with larger manufacturers in the market. With a large dimensioned working field in Y, the profit H300R offers almost limitless possibilities in panel and solid wood processing. Standard and special applications can be flexibly covered with the wide range of products and numerous configuration options available. To ensure a productive work process, the machine and software must be in perfect harmony, numerous interfaces from various suppliers often make this interaction difficult.





CLASSIC SURFACE FINISHING AS THE FOCUS!

With ultra-modern processing techniques, the furniture industry sets standards so high, that they are almost unachievable for standard cabinetmakers. To remain competitive, workpieces have to be processed to perfection at every stage. As an affordable introduction to professional woodworking, the Felder wide belt sanders FW 850 classic, FW 950 classic and FW 1102 perform impress with their high-quality system solutions in the standard equipment.



FW 1102 classic Wide Belt Sander

- Sanding width <u>1.100 mm</u>
- Sanding width 1:100 mm
 Sanding height 3-170 mm
- Contact roller unit, sanding cushion unit
- Feed speed 2.5–10 m/min
- reed speed 2.3–10 m/ mm



FW 850 classic Wide Belt Sander

- Sanding width 850 mm
- Sanding height 3-155 mm
- Combination unit with electro-pneumatic sanding shoeFeed rate 4 and 8 m/min







FELDER GROUP INDIA

Tel. 1800 274 3040 • www.felder-group-india.com

Egger's PerfectSense Feelwood boards: closer to nature



Pix: Egger Holzwerkstoffe. All shown and mentioned decors are reproductions.

Since their launch in 2015, PerfectSense lacquered boards have been delighting Egger customers worldwide. Building on this success, the wood-based material specialist is now expanding its lacquer portfolio with the new PerfectSense Feelwood.

The matt, velvety-warm and textured surfaces open up new design possibilities in furniture and interiors.

Surfaces that convey naturalness are attributed a special value. Egger complements the on-going matt trend with textures that are synchronised to the decor image. The result is the product innovation, PerfectSense Feelwood lacquered boards.

"Due to the continuing success of our matt PerfectSense lacquered boards over the years, we have invested in a second production line at the Brilon (Germany) site," says Hubert Höglauer, Head of Marketing and Product Management (Furniture and Interior Design) in the Egger Group.

"On the existing lacquer line, we produce PerfectSense Premium Matt and Premium Gloss with developed surface properties," he adds. Egger is the first wood-based material manufacturer to combine a matt lacquer surface with Feelwood textures that are synchronised to the respective decor pattern. Never before have optics and haptics been brought into harmony in such a way.

"Our new product meets the trend of matt, oiled real-wood surfaces, and shows naturalness never before achieved on a sustainable wood-based core board. You can see it, but you can feel it above all," says Klaus Monhoff, Head of Decor and Design Management at Egger.

As already known from PerfectSense Premium Matt, the new lacquered board

variant also impresses, thanks to its anti-fingerprint property. This is particularly advantageous with dark colours, as virtually no fingerprints can be seen.

The matt lacquer, with its resistant properties, makes the product innovation suitable for all vertical applications. PerfectSense Feelwood is particularly suitable for use in bathrooms and kitchens, where furniture and interior fittings have to withstand moisture and heat.

A jury from two internationally recognised awards was also enthusiastic about the innovative product. According to the expert jury, PerfectSense Feelwood received the Red Dot Award (Product Design) 2021.

Egger presents five new wood reproductions, as well as the trend colour black, with the new matt-textured surface. The six exclusive decor innovations are available from October 2020 to retail partners, architects and fabricators in the 'Range for the Senses' collection that complements the Egger Decorative Collection.

For distributors, and by extension architects and fabricators, PerfectSense Feelwood lacquered boards are available from stock in the dimensions 2,800x 2,070 mm and 19-mm thickness. ABS edges (23x1.0 mm), which are optimally matched to the surfaces in terms of decor and texture, complete the range.

When developing and selecting the new decors, it was important for Egger to choose woods that already contain very natural elements: For example, Cuneo Oak contains sapwood, Garrone Oak has a reflective nature, Brown Halifax Oak has small cracks, and Riffian Oak has a natural plank.

In combination with the low gloss level, these wood reproductions feature a better reflective nature and natural colour interplay. The matt PerfectSense lacquer finish gives the synchronised pore surfaces TM28 Feelwood Nature Matt and TM37 Feelwood Rift Matt their authentic real-wood look and antifingerprint properties.

The product innovation is based on a formaldehydereduced melamine-resin-coated Eurodekor E1E05 TSCA P2 CE board. The chipboard consists of 89% renewable resources and 70% recycled material or by-products from the sawmill industry.

You can find a range of Egger products in the Decora booth (J-116, Hall 9) at DelhiWood 2023.



Attention Plywood Manufacturers Now beautify your **Plywood's Edge** by Richfill Edge Coat





Brown

Green







UNIFORM AND TRANSPARENT COLOR FOR PLYWOOD'S EDGE



INDUSTRIES PRIVATE LIMITED

Plot No. 37, Industrial Estate, Hotgi Road, Solapur - 413 003, Maharashtra, India Email : rich_wood@rediffmail.com Website : www.richfill.in Phone : +91 217 2745586 Cell :- +91 7722066777 + 91 9422380160

SPECIAL FOCUS

New nesting solution from Leitz



With rising costs, it has become a challenge to manage labour and materials efficiently. With CNC nesting technology Leitz Tooling Systems, the world's leading manufacturer of tools for the professional processing of solid wood and wood derived materials, helps users achieve effective and optimum use of their resources.

Nesting is a waste optimised machining concept to size or profile boards on CNC machining centres. With this technology, it is possible to perform both sizing and profiling cuts (outside profile and ornamental groove profile) in one step.

Nesting is used as a replacement or a supplement to conventional panel saw. Nesting process provides the following advantages:

- Sizing, parting, grooving of material in one setting;
- Using of tools with high feed rates;

Reducing cycle time and increasing productivity.

Typical areas of application for nesting are furniture made of wood-derived materials which will be coated or painted afterwards, interiors of homes and workplaces such as kitchen and workstations.

Nesting is also employed in machining small parts of solid wood, wood derived materials and non-ferrous metals, as well as plastics.

Diamaster Pro

To achieve effective nesting operation, Leitz has developed these router bit tools with spiral cutting edge arrangement with alternate shear angle and DP tipped edges over the complete cutting length.

With DP plunging tip and tool body made from high-tensile material, these router bits are particularly useful for nesting applications and are available from stock in diameters ranging 10-20mm.

These router bits can be resharpened up to 12 times and offer extended performance along with efficient sizing Diamaster nesting router bit.

and nesting cuts in panel products, as well as abrasive materials.

Clamping system

The clamping system plays a very decisive role in the nesting process as the interface between tool and machine. With conventional chucks, the fit clearance reduces concentricity, stability and clamping force. The result is that machine and tool are not as effective as they should be.

The ThermoGrip shrink fit technology overcomes the limitations of conventional chucks, since the tool and chuck are connected as if they were made of one piece (monobloc construction). This enables the nesting tool to cut at maximum speed, gives longer tool life and improves precision, high clamping excentricity (up to <0.01mm) and even with higher cutting forces.

Shrink-fit chuck, ThermoGrip.







Smart Technology. Smart Solution.

Seamless Productivity, Flawless Performance.



Turnkey solutions for the panel

NBE7PCM

HIGHLIGHTS

Top presser

......

- Fiber reinforced v-belt with groove on surface ensures smooth and stable conveying of workpiece but clean with no marks, resulting excellent edge banding quality.
- Pressure beam of heavy-duty aluminium alloy in high stability enable pressure force to be allocated evenly from front to the end but without deformation.
- The height of pressure beam can adjust by electronic regulator, its movement driven by asynchronous motor, controlled by encoder that is available to operate in touch screen.

2. 2-Sets of Pre-Heating

 Warm the work piece edge, the glue could well melt during gluing, especially suitable for wet or cold zones.

3. Pre-melter gluing system

- Pre-melt gluing system has a glue tank on top to offer proper glue volume according to processing, save heating-up time, and a small glue pot on bottom, thus reducing the carbonization and vulcanization from burning up of glue resins, keep glue always fresh.
- Liquid level sensor detection device controls the glue
 amount accurately so as to prevent overflow.

- Just one screw to release and install glue pot, 60mm high gluing roller, 50mm diameter gluing roller, more glue supplying suitable for mass production, long parts and least glue line.
- Sliding seat, easy to switch between pre-melter and PUR device. (PUR device is option).

4. Production report

Daily production included work pieces number and length is available at a glance

5. 2KG/10KG PUR device

- Temperature control system by touch screen control, evenly heating up, avoid carbonization;
- Special gear pump for evenly glue supplying
- Built-out independent suspending system of gear pump to facilitate the repairing and save time.

6. Spraying device (release+ clean agent)

NSE7POR

 Spraying release agent on workpiece surface reduce the adhere of glue, then spray clean agent before buffing thus reduce possible glue line effectively. You would need clean by hand if without this function



NANXING wood working Machinery INDIA Put Ltd.

5, Nandishwar Badavane, Opposite BIEC, Beside Nice Road, Madavara, Bangalore Karnataka India-562123 Phone: +91 87922 77098 / +91 63638 17769 Email- lalitha@nanxingindia.com

processing customers



1 100 10

O DEC AN

NCB612DT

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

HIGHLIGHTS

• 4-slot line tool changer in ISO30 connector cooperate with tool setting gauge for fast tool changing.

- Max rotating speed of top 5.5kw spindle up to 18000 rpm.
- Panel size: Length:- 200- 2,400mm, Width:- 30-1,200mm, Thickness:- 8-50mm
- Optimized drill layout to finish the drilling faster! Min. distance for ver. symmetrical drilling simultaneously is 160mm.
- SYNTECH control system and operation system, more reliable electricity components, Industry level computer. High performance and stability during long service lift;
- Multiple formats accept MPR, DXF, BAN, BPP, PDX, XML, XXL
- SYNTECH control system and operation system, more reliable electricity components, Industry level computer. High performance and stability during long service lift;
- Nanxing high quality self-processed parts by laser cutting, robots welding, sandblasting, advanced 5-axis CNC processing,



DELHIWOOD 2023

SPECIAL FOCUS

Ornare launches premium laminate range



Ornare Laminates has come out with its premium extra-long laminates range inspired by the elements of Scandinavian design. It will create a unified sense of warm minimalism with contrasting accents.

It is a whole new design ecosystem which gives contemporary appearance, de-cluttered look and a perception of space. Decors inspired by nature and palpably innovative surface structures make Ornare Laminates ideal for every application in the home, at the workplace, and just about anywhere you need design. The new collection is developed through a refined selection of colours and original textures. The different finishes combined with three-dimensional textures that are influenced by nature and the world of geometry, tactility and visual impact are extremely refined and pleasing.

The range is an interesting amalgamation of soft Scandinavian woods, subtle pastels and materials like stone and concrete, offers the decors the user desires along with durability.

Rich in details, contemporary to the core, the perfect amalgamation of decors and textures, over 50 unique and novel decors offered with enchanting texture finishes. With wooden decors that feel unbelievably real, pastels to mesmerize senses and tactile touch of textures, these laminates will change the way one visualises and designs spaces and provides the power and freedom to create better spaces with a simple approach.

Ornare Laminates are easy to clean and maintain, can be disinfected and possess anti-bacterial properties. Light-fast and hard-wearing, the surfaces are scratchresistant, making it ideal for horizontal as well as vertical applications.

Visit DelhiWood 2023 to witness the launch of the unique range of Ornare Laminates. For details write to info@ ornare.in.

Powder that gives plywood the edge!

Richfill Wood Putty is a highly effective and high-strength wood putty useful for wooden furniture manufacturers to fill gaps and cracks in wood. Richfill Crack Filler, Richfill Calibrated Filler and Richfill Glue Absorber are the other premium brands useful for plywood manufacturers.

The company will now be introducing their new product, Richfill Edge Coat, that beautifies the edge and gives plywood its natural beauty. Normally plywood

manufacturers use distemper, dipping water or varnish to beautify the edge, but the colour fades fast and it creates a patchy look.

Richfill Edge Coat is a concentrated colour powder, which gives a natural look to the edge of plywood. The colours are most durable for plywood and they are very easy to apply.

It is a water-based powder and is user-friendly. The solution making procedure is simple; by adding water according to the desired shade, a paint-like solution can be made.

This solution can be sprayed on the edge of plywood, to get a natural, gurjan-like brown colour. To highlight the edges of the plywood and make them stand out, this premium quality product is an ideal choice and the best colour coat for the plywood edge.

Visit the Richwood stall at DelhiWood 2023 (Hall 9, Booth No: J115)

Brown





THIS IS FOR MODULAR FURNITURE MANUFACTURER ATTENTION

CNC NESTING MACHINE WITH AUTOMATIC TOOL CHANGER

by India's leading manufacturer of CNC routers & laser machines

CNC NESTING M/C

GX

1325 V

BH







LX-8: 1325 STEPPER MOTOR MILLING MILLING MILLING EX-II: 1325 SERVO ALDROR TRAVEINS TITLED: SEATE, VIEN EZ -II: 1325 CLORED LIDOF MOTOR TRAFLESS WITE SEARCHARM





DELHIWOOD 2023

SCM to bring a slew of innovations



The Italian technology supplier, SCM Group's Wood Division, has named a series of strategic initiatives that will be further empowered in 2023. Autostore is a fully automated spare parts warehouse, and an e-commerce platform for the integrated sale of machines, spare parts and services.

The service has already been launched in Italy and the US, and will be extended to other international markets in 2023.

According to Mr Pietro Gheller, Product and Markets Director at SCM Group's Wood Division, SCM's Rimini facility has set up an automatic warehouse that manages 30,000 items in 900 square metres on 13 storage levels, with 24,000 modular boxes with a loading capacity of up to 30 kg each, and 19 robots for pick-up operations.

Autostore is enabling SCM to offer a more efficient, value-added service for its woodworking customers. "The commissioning of Autostore has resulted in a 26% increase in orders handled in 2022, shipping times that are five times faster, and a double-digit increase in the turnover of our spare parts business alone," Pietro said.

The Smart&Human Factory, a system of flexible, modular cells; the Gabbiani GT-2 beam saw cell, the versatile Morbidelli CX220 drilling cell, and innovations for edge banding from the Olimpic and Stefani stables will join SCM's integrated solutions for surface treatment.

Pietro went on to emphasize that SCM's technological innovations will continue to focus on the entire woodworking sector and to satisfy all processing requirements, as can be seen at the next edition of Ligna (in Hannover, Germany, 15-19 May 2023).

The new Gabbiani GT2 beam saw with robot

At DelhiWood, Indian furniture manufacturers can meet the SCM team and explore all the latest woodworking innovations.

The SCM Group clocked a record turnover of approximately 850 million Euros and an order portfolio worth more than 800 million Euros. This allows the company to approach 2023 with confidence despite supply chain uncertainties and complexities and the soaring costs of energy and raw materials.

In the year 2022, SCM launched more than 40 R&D projects featuring new product or range launches; and administered 77,000 hours of training to employees, dealers and customers. The SCM Group added 20,000 square metres of floor space to its machine manufacturing sites in Rimini, Vigolzone and Zogno.

SCM's new DMC system with laser for sanding.





www.adlerwud.com



INTERIORS LOOK BETTER & STAY LONGER

WHEN ITS FURNITURE MADE WITH ADLERWUD

PRODUCTS RANGE:



interio EXTerio



> 2-5 March 2023, India Expo Centre & Mart (IEML), Greater Noida

PRElam CHMR BOILMAX

ADLER WOOD INDIA PVT. LTD.

Marketing Office: Ghevra Mor, Near Metro Station, Main Rohtak Road, New Delhi - 110081 www.adlerwud.com | info@adlerwud.com | +91-88000-33150, 88000-33149 **DELHIWOOD 2023**

Cutting 2.0': AKE's next-gen solution



'Cutting 2.0' stands for the directed chip removal, which almost eliminates unwanted multiple chipping during sawing of solid wood or wood-based panels. This is accomplished by the special design of the AKE Knebel's tools.

With the saw blade there is no longer the classical gullet. Immediately after cutting the chips are purposefully guided to the specific area of the blade's stepped body, the so-called ChipBelt, and carried off.

Meanwhile chips of the cutters are removed upward through a spiral chip channel. They can thus be removed from the material immediately after cutting without the risk of being cut again. The multifaceted customer benefits and practicability of this technology has resulted in positive experiences reported by renowned customers and machine manufacturers such as IKEA Industry, Biesse and Büromöbel.

In terms of running metres, number of cuts and cutting volume they experience significant increases compared to the tools of other manufacturers. They changed to DP-tipped 2.0 circular saw blades only recently and expect to achieve an even higher increase in terms of tool life.

The positive experiences with 'Cutting 2.0' are evidence of the widespread acceptance and outstanding advantages of this innovative technology. The 2.0 product family is therefore constantly expanded. The current 'Cutting 2.0' product family consists of:

- Panel sizing saw blade 2.0
- DP jointing cutter 2.0 (optionally in Harmony)
- DP shank cutter 2.0 (optionally in Harmony)
- SuperSilent

Another big advantage is the long tool life, which simultaneously reduces processing costs. Apart from the economic aspects the users also benefit from an ergonomic point of view with the considerable reduction of noise and dust.

The 'Cutting 2.0' product family is rounded out by the HP clamping system which combines the advantages of various different clamping systems. It stands out due to an improved run-out accuracy, slim design and easy mounting.

The HP clamping system is thus a perfect and cost-efficient alternative to the shrink-fit version.

AKE Knebel GmbH is now offering a brand new, very extensive panel sizing program based on the 'Cutting 2.0' technology: the thin-kerf versions of 2.0.

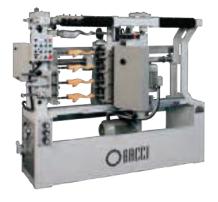
Another advantage of 'Cutting 2.0' is that the complete panel sizing program is

Tapio-ready, which means it will, in future, be possible to import the items into a Tapio ecosystem via barcode.













BACCI T4MO

BACCI COPY SHAPER

BACCI MASTER 6 AXIS CNC



MORTISING MACHINE



TENONING MACHINE



3 HEAD BORING



SINGLE HEAD BORING



SERRA SAW MILL







WIDE BELT SANDING



CLAMP CARRIER



HF PRESS



FOR TURNKEY PROJECTS IN • Door Production Plants • Solid Wood Furniture Plants • Panel Processing Plants

We also provide Taiwan & Europe machines as per customer requirments . 47/2, 1423, Gidadakonenahalli, SMV Layout, 8th,Block.60 Ft, Road Vishwaneedam Post

Bengaluru, Karnataka - 560 091. INDIA

Tel: +91 95911 47864 Email: sales@jovastech.com Website: www.jovastech.com

AUTO WRAPPING & PACKING MACHINE

SPRAY MACHINE

PAUL MULTI RIPSAW

DELHIWOOD 2023

CAD/CAM solutions from TopSolid



TopSolid Wood is a software that is aimed at wood production and offers complete integration from conception (design) to manufacturing. It allows efficient management of projects, from the simplest to the most complex, thanks to its efficient design functionality and its assembly management, along with parameterisation and associativity.

When complemented with its fabrication module – TopSolid WoodCAM – it is an integrated CAD/CAM solution that analyses geometries to automatically deduce fabrication operations.

TopSolid SAS works closely with machine builders for the woodworking industry to develop post-processors that optimise production times and costs.

TopSolid WoodDesign allows 2D

and 3D parametric design with wood functions. It integrates specific machining issues right from the modelling phase and provides:

- Methodology for projects, from the simplest to the most complex;
- 3-dimensional design;
- Optimised management of assemblies;
- Component library;
- Fast and associative transition to 2D;
- Creation of images and videos in 3D environment.

TopSolid WoodCAM

This is a machining solution for the wood industry. Use of TopSolid WoodCAM through the 3D model of TopSolid WoodCAD allows advanced manufacturing automation and complete associativity between design and fabrication.

 TopSolid Wood CAM manufacturing features from 2 to 5 axes;

- Complementary nesting module for manufacturing;
- Custom-built post-processors, taking into account parameters of customer's machines.

TopSolid Planner

This is a planner that allows design to be created in stores that is ready for manufacture. It works as a configurator, assembling elements, with rendering and budgeting for customer approval. After adjudication, the entire project is ready for manufacturing.

- Use of elements from the catalogue (built with TopSolid WoodDesign) to assemble kitchens, bedrooms, commercial spaces, laboratories, among others;
- Tools for quick construction of spaces, ideal for commercials and stores;
- The ideal tool to connect customers to Fabrica.

THINK WEINIG





DELHIWOOD 2023

Automatic production solution from Woodtech

As the woodworking industry keeps growing in India, the need for "smart furniture" manufacturing systems arises to meet the growing demand of panel-based furniture in India.

Such smart systems help increase productivity and bring down the cost of manufacturing. In order to cope up with this demand, Woodtech has come up with an automatic smart furniture production system in a joint venture with its principal, Taiwanbased KDT's MesEdge. This automatic production system is divided into five areas.

Cutting and nesting

To get panels to the accurate size in the cutting area, all the panels are brought from the central storage using a board sorting system. Panels can be cut using beam saws, but MesEdge employs automatic loading and unloading systems and automatic CNC routers. This makes cutting very fast, saving production time with better optimisation.

Edge banding

After cutting and nesting, the panels are conveyed to the edge banding machines through conveyors and robotic loading systems. Edge banding consists of different lines, with either two-side or four-side edge banding machines. The MesEdge saves on manpower and space and increases productivity. Edge banding costs can be brought down considerably.

Drilling area

Panels from the edge banding area are

conveyed automatically to the drilling area, where multiple CNC drilling machines are set in one line with robotic feeding systems. By doing this the manpower requirement is reduced by 75% and space requirement by 40%, thereby increasing productivity. Flexible loading solutions can be proposed on the end of the project.

Sorting area

Since the number of panels being handled in each product is quite high, the need for a very intelligent handling system for sorting of panels is required. MesEdge uses a robotic sorting system which can accurately handle different panels at a time and get the right finish of the right product. This robotic sorting system can be customized, depending on the need of the product, and is fully automatic.





7th International Trade Fair for Furniture **Production Technologies, Woodworking** Machinery, Tools, Fittings, Accessories, **Raw Materials and Products**

2 3 4 5 MARCH, 2023

India Expo Centre and Mart (IEML), Greater Noida, Delhi-NCR

SHOW HIGHLIGHTS

- Over 50,000 Sqm Exhibition space
- 600+ Exhibitors
- 10+ Country Pavilions
- 100+ Product Launches
- 25,000+ Woodworking Professionals
- Product launches and Technique demonstrations of woodworking machines
- Training and Skill development programs
- Seminars and Conferences by Industry Experts
- Workshops and interactive platforms for visiting architects, interior designers and builders



SCAN FOR VISITOR REGISTRATION

www.delhi-wood.com

Entry to exhibition is free & open only to trade visitors above 18 years of age













Helpline: +91 (80) 46748888 | Email: woodshows@nm-india.com

Concurrent Shows:

Organiser:

NÜRNBERG MESSE

Supported by:

S





Packaging area

From the robotic sorting line ready panels are taken through conveyor belts to the packing area and packed automatically, separately for each project or each product type. The entire line and packing machines can box the panels in one bow, thereby reducing manpower and avoiding manual errors.

Cloud control

This entire process is totally controlled by connecting the whole system to KDT's quality control software, from where the entire operations can also be managed. This cloud control system also provides data on annual consumption, cycle time calculation, and real-time production output.

The software is also capable of energy consumption accounting and benefit

analysis. All this data can be obtained any time from the cloud control system. It stores minute details of each of these lines and can be monitored individually from the cloud control system.

By adopting this automatic production solution, furniture manufacturers can reduce manpower and factory space; reduce manual errors and increase production output. This way they can also reduce the cost of manufacturing.

Resilient edge bands from Pegasus



The growing number of homes in urban and suburban across India, and the expanding market for modular furniture, is the driving force behind the continuous growth of edge band tapes in the domestic market. PVC edge band is used in furniture making or repairing process to cover or conceal sharp or uneven edges and give a smoother finish to the product. It helps to protect furniture from damage and prevent injury to people, and also look chic and attractive. Unipegasus Profiles has been a pioneer in North India in manufacturing and supplying premier quality, award-winning PVC edge band for the furniture industry. It boasts of a production capacity of 2.5 lakh metres per day, manufacturing a wide range of colours in Matt and in High Gloss finishes.

Its PVC edge bands are suitable for various applications and can increase the life cycle of the product. Unipegasus edge bands last for years without losing their colours. Other features:

- Scratch and weather resistant;
- Can be easily bent to suit product;
- Rigid, reliable for all environments;
- No uneven edges upon application:
- Good adhesion to applied surface.

Visit Unipegasus Profiles during DelhiWood 2023 (Hall 11, No. S-913). You may write to pegasusprofiles@live. in.



A SICHED ANO TANUT

CIURED IN 11



THINK COMPACTEDGE EASY

E450PM

Automatic Edgebander With Hotmelt Gluepot (EVA), Chain Panel Feeding And Premilling

- Designed and Manufactured to fulfil the needs of Small, Medium and Large Carpentry Industries.
- Maximum Finishing Quality
- Minimum Space Occupied 2.3 m
- Easy to use



E450

FLEXIBLE AND AGGRESSIVE IN EVERY MARKET

FLEXY 1350

- Automatic Calibration, Fine Sanding & Finishing Machine
- Performing & Reliable for each type of Work 🐵
 - Constant Pass Line &
 - Custom machine with remote control, a statistics display & Virtual assistance
- Electronic sectioned pad of new conception 🕮
 - Industry 4.0 Ready Package 🛛 🔤

+91-98860 90202 | +91-98860 99002

🔀 info@arnavimachines.com 🛛 🏨 www.emcitalia.in 🛛 🍓 www.casadei-industria.in

PRODUCTS AT A GLANCE



























Our Other Products

- Sanding Machines With Cross Belt
- Vacuum Pick and Place System
- Auto Stacking System
- Paving Line

Branches :

- Moradabad (U.P.)
- Chandni Chowk (Delhi)
- Hyderabad (Telangana)
- Yamuna Nagar (Haryana)
- Gandhidham (Gujarat)
- Cochin (Kerala)
- Kannur (Kerala)

Self Designed and Developed in India

Environment Friendly

Complete Customer Satisfaction

•

Highly Economical

Best Performance

800+ Customers In Asia

Energy Efficient





PLYWOOD CALIBRATING MACHINE

60 HP + 60 HP ±0.05 mm Accuracy





WORLD CLASS ENGINEERING in INDIA with PERFECT COMBINATION of TECHNOLOGY PERFORMANCE PRODUCTION SPEED POWER CONSUMPTION ACCURACY & RUNNING COST



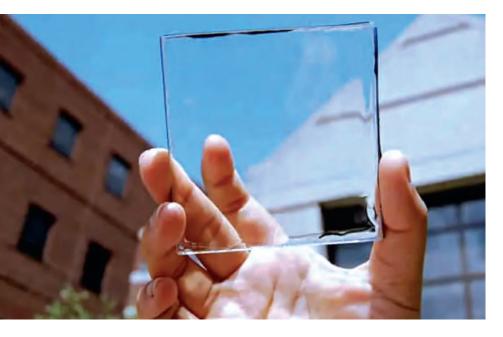
H.O. / Factory Address :

Khatri Industrial Area, Sampla-Beri Road, Sampla - 124501, Distt. Rohtak, Haryana (INDIA) Mob. No.: +91 9811119274, 8222931401, 9899029274, 8222931402 E-mail : marketing@kumarengineeringco.in www.kumarengineeringco.in



TECH UPDATE

Transparent solar panels could replace windows



As the world focuses on climate change, alternate forms of energy are taking centre stage. Researchers are also looking at see-through solar panels especially as, in modern society, glass is practically everywhere.

Ranging from the screen of one's phone to skyscrapers, it is estimated that there are up to 7 billion square metres of glass surfaces in the US alone. Imagine the amount of electricity that could be generated if we could tap into that power!

But it should also be noted that conventional solar panels necessitate a wide setup area, as well as a significant initial cost. Because of these constraints, it is difficult to implement them in metropolitan locations. Transparent solar panels, on the other hand, can be implemented in these areas, paving the way for net-zero energy buildings and help cities meet climate goals and targets.

And that's not just on paper – transparent solar technologies are already popping up around the world. The Copenhagen International School's design utilises 12,000 hued but clear solar panels all over the building, producing 200 MW/ hour of energy annually, more than half of the energy the building consumes.

The bio-medical and physical sciences building on the campus of Michigan State University (MSU) was upgraded with the installation of 100-square-foot transparent solar glass panels above the building's entryway. They will generate enough electricity to power the lighting in its atrium.

However, there are some obstacles

standing in the way. Before the technology can be scaled up, scientists need to up its efficiency, as there is an efficiency/ transparency trade-off.

The more transparent the panel is, the less efficient it is, which is why seethrough panels are not expected to exceed or replace the standard solar panels we have grown accustomed to. Either way, the technology could potentially help humanity get to a truly sustainable and greener future faster.

They have the potential to shift cities from major energy users to energy providers in an instant and could usher in a new era of clean energy revolution while safeguarding farmland and natural habitats.

Transparent solar is a cutting-edge technology that gathers and uses light energy through windows or any glass surface, regardless of the angle. It has the potential to be a game-changer in terms of broadening the scope of solar.

In terms of engineering, researchers have created several means of transparent solar technology. However, the majority of them function more as a transparent solar concentrator, which means they are made to absorb specific UV and infra-red light wavelengths that are not visible to the naked eye and transform them into energy capable of powering electronics.

This technology is also called photovoltaic glass, and it is manufactured to provide a ranging level of transparency. Researchers at MSU have already developed an entirely transparent solar concentrator, which could convert almost any glass sheet or window into a PV cell.

HE HOMAG



The Revolutionary SAWTEQ B-100

is the Epitome of Performance, Productivity, Safety & Cost Optimization.

- 🔀 Info-India@homag.com
- 🛞 www.homag.com

Henkel's Loctite Pulse makes MRO easy



Henkel Adhesive Technologies, the Germany-based leader in adhesives, sealants and functional coatings, introduced Loctite Pulse, an industrial internet-ofthings (IoT) solution that contributes to the reliability of critical assets.

Loctite Pulse smart flange leak detection can detect early leakages and may be able to predict serious incidents. Critical assets can be monitored with a smart app and notifications are sent when irregularities are detected.

This enables operators to act in a timely manner, significantly decreasing the risks of growing leaks to both operations and the environment and contributing to sustainability.

Major customers in the oil and gas and chemical industries, such as Shell or H&R Group, have already installed the maintenance, repair and operations (MRO) solution in their plants and are benefiting from intelligent monitoring.

Since the majority of these critical flanges are located under insulation, or in difficult-to-access areas, visual inspection required significant effort and was often carried out at insufficient intervals and in inadequate quality. With the help of Loctite Pulse smart flange, critical flanges are now continuously monitored, enabling the detection of possible leaks at an early stage.

This avoids costly repairs and unplanned downtime, while also providing an additional level of safety.

The use case at the Shell Energy and Chemicals Park in Rheinland (Germany) is similar. The users are particularly impressed by three advantages of the Henkel solution: simple and fast installation, the fact that leaks can be precisely localised, and the possibility of rapid scaling.

For Henkel, IoT, especially smart maintenance, is an important future growth area. Smart Flange represents just the first of many solutions that will soon follow.

The Loctite Pulse solutions are installed in several of Henkel's own plants and are showcased at its two production plants, as well as in its Inspiration Centre in Düsseldorf. In 2021, Henkel reported sales of more than 20 billion Euros and adjusted operating profit of about 2.7 billion Euros. (www.henkel.com).

45 years of high quality adhesives production

Visit us at DELHIWOOD 2- 5 March 2023 INDIA EXPO CENTRE & MART, GREATER NOIDA,INDIA

We produce EVA and PUR hot melts



Flat Lamination



Edgebanding



Wood Profile wrapping





Tools & Equipments Pvt. Ltd.



Made in Italy

Other applications:

Panels production



Veneering



3D technologies





A/57 Giriraj industrial Estate, Mahakali Cave road, Andheri, Mumbai-400093. INDIA Call us: +91-22-69074600 - Email us: sales@totaltoolsin.com - www.totaltools.in

New hot-waxing to prevent wood aging



To prevent the degradation of wood surfaces by ultra-violet (UV) radiation and water, modified polyethylene wax and oxidised paraffin composite wax were used for the protection of wood surfaces with hot wax treatment.

The effects of natural beeswax coating and modified synthetic wax coating on wood surface aging behaviour were also studied, says a report in *European Coatings*.

Results showed that changes in colour, gloss, water uptake, contact angle, micro-morphology, and chemical changes of wood treated with modified synthetic wax hot-waxing were less than those of wood treated with natural beeswax hot-waxing after long-

term aging under UV light and water.

Among them, the oxidised paraffin composite wax coating showed the best protective effects on the wood surface, and the composite wax coating reduced the UV penetration and enhanced the UV oxidative degradation resistance.

In addition, the synergistic effect of modified polyethylene wax and oxidised paraffin further reduced the water uptake of wood during the aging process.

According to the researchers, this data shows that the modified synthetic wax and composite wax coating can effectively inhibit the photo-oxidative degradation of wood surface, provide a lasting hydrophobic protection effect on wood, and show long-term photo-stability.

A UV-shielding, hydrophobic and transparent coating has also been

developed to improve the weathering resistance properties of wood materials while maintaining the natural aesthetic texture of the wood.

For the novel coating, graphitic carbon nitride nano-sheets (gCNNS) were used as non-toxic and metal-free UV absorber. Cellulose nano-fibril (CNF) was selected as an environment-friendly and renewable film-forming carrier, which addressed the issues of agglomeration and low composite adhesion of gCNNS on the wood surface.

The gCNNS/CNF composite coating was formulated on the wood surface via spin coating method. These coatings can be applied to a wide variety of substrates.

A following hydrophobic treatment by thermal chemical vapour deposition (CVD) method was to solve the problem of rainwater erosion in outdoor application.

After 15-day accelerated weathering tests, the total colour change of the treated sample was 79.6% lower than that of the untreated one. The scientists report that the newly-designed environment-friendly and weathering resistant coatings can be applied to a wide variety of substrates in the future.





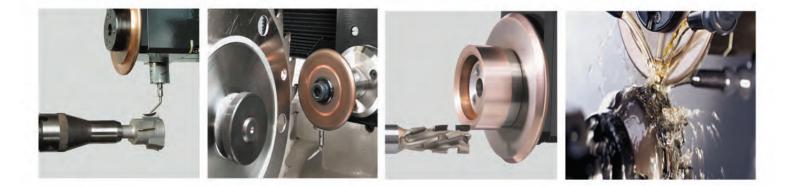


QM eco select

QM eco

W

Disc erosion machine for the machining of PCD tools



+91 80 4171 1155 info-india@vollmer-group.com www.vollmer-group.com VOLLMER Technologies India Pvt. Ltd. C-305, 9th cross, 1st stage, Peenya Indl. Area, Bengaluru 560058







Ahmedabad | Bengaluru | Chennai | Delhi | Hyderabad | Kolkata | Mumbai | Pune

caple.in



BOSCH	Blum	caple.in	DEWALT	Fein	FESTOOL
ΗίΚΟΚΙ	imos	KUPER	leitz	Tnakita.	MAS Ø
	MARMA MARCHINE	RUPES'	(Ascm	≣Vitap	Buy / Sell Used Machines

Products

- Cold Press | Hot Press | Roller Press
- Sliding Table Panel Saw | Automatic Panel Saws
- · Manual Beam Saw | CNC Beam Saws
- Through Feed Edge Banding Machines
- High Speed Auto Edge Bander
- Portable Edge Banding Machine
- Curvilinear Edge Bander | PVC Edge Trimmer
- Thermoforming Press | Vacuum Membrane Press
- Singe Head | Three Head | Multi Boring Machines
- · 6 Side CNC Boring | Vertical CNC Boring Machine | Horizontal Boring Machine
- Hi Speed Table Router | Pin Router |
- 5 Axis CNC Routers | Nesting CNC Router
- Dust Extractors | Vacuum Cleaners
- Circular Saw | Track Saw | Table Saws
- Surface Thickness Planer
- Double Side Planer | Two Side Thickness Planer
- Straight Line Rip Saw
- Tenon Mortiser | Biscuit Jointer Machine | Oscillation Mortiser | Round End Tenoner
- Spindle Moulder | 4 Side Moulder Machine
- Jigsaw | Bandsaw | Chain Saw | Lumber Sawing
- Wide Belt Sanders | Edge Sanders | Palm Sanders
- Nailers & Staplers
- Finger Jointing Machine
- Flooring Lines
- Clamp Carrier
- Turning Lathe Machine | CNC Lathe
- Blade Grinder Machine
- Post Forming Machine | Soft Forming Machine
- Solutions for Mass Production
- Power Tools | Hand Tools
- Classical Machines
- Automatic Machines | Industrial Machines | Lines
- Accessories | Consumables
- Spares & Service
- Warranty | AMC | Service Desk

Industry

- Agricultural and Garden Equipment
- Aluminium uPVC Machines | ACP Fabrication Tools
- CAD CAM Software
- Construction Machinery
- Dust Collection Systems and Fume Extractors
- Industrial Machines | Factory Automation | SPMs
- Metal Working Machines
- Microwave Ovens
- Laser Machines: Co2 Fiber Marking Lasers
- Material Handling Equipment
- Paint Booth and Clean Rooms
- Surface Finishing Machine Tools
- Power Tools & Hand Tools
- Domestic Pump | High Pressure Pump
- Industrial Pump | Chemical Pump
- Glass Machines | Acrylic Machines
- Stone Machines
- Welding Machines
- Woodworking Machines

Consulting Services

- Factory Layouts
- Process Optimisation | Application Consultancy
- Project Sheets | ROI Calculation
- Recommended Packages
- Consultancy in Laser Machines
- Consultancy in Surface Finishing
- Air Audits
- Finance & Equipment Leasing
- Sales through education
- Comparison Charts
- Make in India | WorldSkills India | Skill India

Offers

- New Machines | Demo Machines
- Buy/Sell Second Hand Machines
- Sales Partner | Dealer Partner

Ahmedabad | Bengaluru | Chennai | Delhi | Hyderabad | Kolkata | Mumbai | Pune

Consultancy | Supplies | Service

'Homag India is about viable, customer-relevant, sustainable solutions'



Homag is the leading technology and service provider to India's furniture manufacturing industry. Its range of machines includes panel cutting and sizing; edge banding and glue application; CNC machining, processing, and routing; planning and moulding; drilling and milling; surface technology and label printing; and storage and sorting solutions.

Dhananjay Sardeshpande spoke with Homag India's Managing Director and Country Head **Mr. Venkataramana Gorti,** to feel the pulse of wood-based furniture manufacturing in the country, and to hear about his company's diverse solutions for the woodworking industry. Excerpts: Now an Executive Member of the Governing Council of the Furniture & Fittings Skill Council, Venkat says Homag India has trained the FFSC faculty on its machinery and digital solutions, free of cost.

What have been the two or three noticeable changes in the Indian furniture manufacturing industry since you joined Homag India in 2019? To what would you attribute these changes?

With global e-commerce sales expected to reach at least US\$ 6.5 trillion by 2023, online stores are no longer an afterthought, or a complement to a physical store – it is one of the key ways to tap the burgeoning market demand and keeping the sales figures up. This makes it important for furniture makers, especially traditional ones, to create a thriving e-commerce platform that showcases their offerings.

Secondly, in the last few years, the demand and percentage of rental properties have increased sharply in metro cities. The Indian furniture rental industry was estimated at US\$ 4.1 billion in 2020 and is forecast to grow to US\$ 13 billion by 2025, at a CAGR of 26%.

There are several reasons for this change, most of which are related to rapid urbanisation and the rise of Millennials as the larger percentage of the active workforce.

They have a new and different set of challenges compared to their previous generations, which includes – but is not limited to – the rise in home prices, the need for higher education, instant gratification, and getting married at a later age.

WOODNEWS

More rental spaces mean a rise in demand for a very specific type of furniture - both from landlords and renters. Given the large-scale decline of "one-and-done" type of heavy furniture, manufacturers have evolved and diversified their line of products. They now offer a separate line of furniture that fulfils the burgeoning demands of Millennial renters.

Thirdly, there is the changing demography of the work force. With more and more of the Millennial and Gen-Z population coming to the forefront, it is not just lifestyle and housing choices that are experiencing a shift.

This is especially true when it comes to jobs in the furniture manufacturing industry. Those from the older generation are retiring in large numbers, and Millenials and GenZ employees are taking over the bulk of the manpower used in manufacturing companies.

Given their different lifestyle, they have different sets of skills and priorities and are not particularly wooed by the factors that appealed to the older generation. For instance, the idea of owning their home before they are 30, or having a hefty pension plan appeals less to them, as opposed to having a second master's degree.

Millennials and Gen-Z workers prioritise

their personal development and are not impressed if the furniture manufacturers they work for do not share their viewpoints. Unfortunately, very few companies have realised the gravity of this situation and have, therefore, not invested in automation.

With the demands rising higher and competition getting tougher by the day, relying exclusively on manpower is impossible. At the same time, factories are not in a position to run 100% on automation. Manufacturing units must, therefore, adopt to integrate robots in a way that helps them sustainably improve their production.

In hindsight, what lessons were there for the furniture industry from the business disruptions caused by the Covid-19 pandemic?

The year 2020 saw a decline in the demand for furniture due to the sudden Covid-19 disruptions. However, there was a slight growth recorded in online sales. As people refrained from visiting showrooms, they switched to ordering their furniture online.

We are seeing signs of huge furniture market growth, and a large amount of the population has switched to buying online.

Second, with more individuals working from home than ever before, there has been an increase in demand for home office furniture that is stylish, functional, easy to assemble, and quick to ship.

Those furniture companies that already specialised in home office furniture have seen sales increase dramatically, and the demand is expected to continue into 2023 and beyond as the remote and gig work force is expected to become more than just a temporary event.

Third, social media presence has become a must for direct-toconsumer brands. Big multinational furniture firms now find huge potential in social media marketing. Interior designers and fashion influencers post pictures of their furniture and the designs become popular. Online and offline magazines have also played a vital role in showcasing ideal furniture setups for studio apartments. offices and bungalows.

Homag India's new manufacturing facility supports domestic and international markets in Asia, Japan, Australia and Europe.



Another popular trend is direct customer selling. The process of making a product and then launching it and sending the prototypes to the franchised outlets in every city has gone cold these days.

With the help of social media, new business owners of furniture shops are directly posting pictures of the unit they want to sell online and accepting payments directly online.

What is the state of the furniture industry now? What are its prospects in the coming years?

The Indian furniture market by the commercial sector is anticipated to achieve a CAGR of 11.97% during the forecast period (2018-23). The commercial sector is further sub-segmented into non-contracting and contracting.

The demand for furniture has been observed to majorly generate from northern and southern India. India is the fifthlargest furniture producer at a global level, and the fourth-largest consumer of furniture. The Indian furniture market was valued at US\$ 17.4 billion in 2021. It is predicted to reach US\$ 37.7 billion by 2026, growing at a double-digit CAGR of 13.37%.

The size of the online furniture retail segment grew from US\$ 300 million in 2017 to US\$ 920 million in 2020, recording a CAGR of 32%.

What is the state of investments in this sector? What is the nature of these investments? What are the profiles of these investors?

The furniture market in India is dominated by small, unorganised, local firms. However, organised players have increased their contribution to the Indian furniture sector during the previous decade. With the advent in India of multinational furniture companies, such as IKEA, the organised players' market share would expand even more.

The Indian furniture market is highly competitive and fragmented. There are very few organised market players in the furniture industry. The big players include Godrej, Zuari, Durian, Nilkamal and Featherlite. Together they have a good market presence in India. Fortunately, several new players are expected to enter this market due to low entry barriers.

The furniture-making business in India is defined by its supply chain management, cost minimisation, customisation and

Homag works with its customers to help them retain their competitive edge in the market.



brand management. With the growing need for improved infrastructure, improved standard of living, and rise in the tourism and hospitality industry, the need for furniture of different types, styles, designed for different spaces (commercial offices, homes, hotels, resorts, etc.) has also been growing.

The changing consumer demographics in terms of westernisation, the constant need for establishing social status, and the boom in the real estate business are all the reasons entrepreneurs should set foot in the furniture manufacturing business.

Will 'Make in India' and China's recent temporary isolation help boost manufacturing in India? What is additionally required to give the furniture sector a leg-up?

Yes, absolutely! The market potential for this furniture-making business is huge because it makes up 0.5% of India's GDP and the major contribution to it is by the 85% unorganised sector of this industry.

Reducing GST on the real estate and construction industry would boost domestic demand for furniture manufacturing. If the Central government includes furniture manufacturing under the performance-linked incentive (PLI) scheme, India will become the furniture hub for the world.

Homag India has moved to its new, bigger and better-organised premises near Bengaluru. Can you tell us something about the new facilities? How they have benefitted your customers?

Homag India is in a new phase of expansion, whether it is in terms of the product range that we provide, in-house training programmes for customers as well as staff, or the services for machinery and digital products. Our manufacturing facility supports both domestic and international markets in Asia, Japan, Australia and Europe.

Our new state-of-the-art factory contains a shop floor, training rooms, an experience centre, and several conference and discussion rooms for varying capacities. Located in Rajdhani Industrial Park, Dobbespet industrial area, about 40 km

INTERVIEW

from Bengaluru city centre, it is testimony to our increasing commitment to serving the industry.

In keeping with the motto 'We set the trends', the Homag India Experience Centre allows our customers to get demonstrations of sustainable solutions for their businesses, thanks to its woodworking machinery and digital assistants.

You have spoken about 'Voice of Customers' and 'Rol on Technology'. Could you explain?

Most organisations are profit- or productcentric, and follow the push method to sell their products in the market. Most sellers prefer to push their chosen products to customers without understanding their customers' needs. At Homag India, we follow a three-pronged pull strategy:

- Resonate and be coherent to the voice of our customers, their needs and ambitions;
- Work with them to ensure their growth projections are met and help them retain their competitive edge;
- Realign from product-centric selling to providing viable, relevant and sustainable solutions.

Trust and transparency are the buzzwords in our organisation, from the shop floor to the top floor. We are enhancing our business processes through Homag Group Production Systems 2.0, and putting in place more robust and scalable systems. These will contribute to the growth of the industry and keep pace with market expectations.

When it comes to setting up and running furniture production, Indian entrepreneurs always think about ROI on their capital investment and the payback period. They never think about the total cost of ownership at least for 10 years of operations, losses arising due to production downtime, operational expenses and material wastage.

Though the initial value of our products may be higher, compared to our competitors, the solutions offered by Homag India cost a lot less in the long run. Among other things, we achieve high machine availability through high product quality and service and spare parts availability.

We urge our customers to treat the solution offered by Homag India as an investment, not as a business expense.

How can technology providers, such as Homag, nurture workshops into full-fledged, organised and scaledup businesses?

We are a customer-centric organisation. We provide tailor-made solutions to each customer segment in the woodworking industry. Thanks to our extensive range of services, we can train customers who have their wood workshops and support them with consulting.

We have permanently expanded the product portfolio in recent years, digital solutions especially for Most organisational optimisation. software products do not require installation and can be used as an App on a monthly subscription. These products are suitable for interior designers, freelancing architects and furniture manufacturing companies of any size.

Homag has entered the solid wood processing and timber construction sectors as well. What is in it for the Indian market?

With the perfectly interlocking range of services offered by System TM, Kallesoe and Weinmann, Homag offers tailor-made solutions for the entire process chain in solid wood processing.

In terms of efficient and sustainable production, we offer our customers precisely coordinated solutions from the individual machine to the complete production line, including the corresponding control software.

In Asia, we are seeing an increasing interest in the industrial production of housing, but it is currently difficult to estimate the extent and speed at which the demand in India will pick up. We can also support interested parties and investors in product development and house construction, to enable newcomers to successfully enter the market.

System TM is a leading global supplier of customised solutions to the solid wood

industry with more than 40 years of experience and more than 300 running lines worldwide. Being world market leader, the Weinmann offers the entire range of machine technology for timber construction, both for carpentry module companies and manufacturers and the prefabricated house industry.

Kallesoe contributes 50 years of know-how and experience in the development of high-tech machines and solutions for the manufacture of laminated timber products.

So far as automation and digitisation of production go, Homag has a bouquet of solutions. Could you expand on the 'Digital Twin' and 'Industry 4.0' concepts?

Whether our customers need machines, systems, or software solutions, our goal is to provide integrated solutions for production in the woodworking industry and woodworking shops. It is one of Homag's unique selling propositions.

Digitalisation and networking of furniture production beyond the factory premises and national boundaries is the core of the 'Industry 4.0' vision. Diverse units within a manufacturing facility can communicate with each other and even organise themselves. The benefits of 'Industry 4.0' solutions are:

- Efficiency increases in the manufacturing process;
- Improvement of material flow in production;
- Increase in machine utilisation times;
- Reduction in administrative expenditure on IT;
- Prevention of redundant, faultprone data maintenance.

The 'Digital Twin' technology is the process of using data streams to create a digital representation

of real-world assets, machines, systems and factory operations to improve collaboration, information access, and decisionmaking.

In other words, through a combination of simulation technology and data – gathered from sensors, historical records, etc. – engineers use software that builds a virtual twin of a woodworking factory or physical object or process.

Homag Group AG has achieved its goal of simulating a factory in its overall process, thereby significantly reducing the amount of work and the time required for commissioning on the construction site.

That said, no Homag system is like any other – they are all unique and individually designed to meet the respective customer's needs. For this reason, each system must undergo extensive testing before the operator can run it at full capacity.

Can you also elaborate on your portfolio of design and production software?

Homag is staying one step ahead of the market to provide optimal support to companies that operate in the woodworking trade as they move into the future. Whether you need woodworking design software to deliver personalised kitchen cabinets, or plan your production to reduce material wastage, or monitor your machine performance remotely, our digital products such as Homag iX, Production Manager, IntelliDivide Cutting, CutRite, MMR Mobile, materialManager, intelliDivide Nesting, and ServiceAssist can save up to 70% of the time to get the things done, from customer idea to production.

How big is the need in India for formal education and training in the furniture industry? What is the way forward for up-skilling our carpenter community?

One of the biggest challenges that the furniture manufacturing industry faces is a looming skills gap. While the technology and machinery involved in manufacturing furniture have advanced by leaps and bounds, the work force to control and monitor them hasn't quite gotten up to speed.

Older workers usually lack the technical training and know-how of sophisticated manufacturing equipment such as 3D printers, CNC machines and robotic systems. Most of them, close to retirement already, choose to retire rather than "take risks" with complications.

Younger workers from architecture backgrounds do have the digital skills and the ability to understand such equipment, but tend to lack a solid STEM (science, technology, engineering and mathematics) background that could help them fully realise their potential in the industry. This skills gap will soon create a scenario where manufacturing units will be in a severe dearth of skilled and able workers. Almost 97% of the work force in the furniture sector is school dropouts. Out of these, almost 88% have an educational qualification of secondary schooling or less.

Labour is abundantly available in Uttar Pradesh, Madhya Pradesh, Bihar, West Bengal, Odisha, Rajasthan and Maharashtra. As the labourers in these states are minimally skilled, they find the furniture and furnishing sector attractive.

To plug this gap, I have joined the Governing Council of the Furniture and Fittings Skill Council (FFSC). To begin with, we have trained the FFSC teaching faculty on Homag machinery and digital solutions, free of cost.

FFSC aims to skill, reskill and up-skill 5,00,000 aspirants for internships, apprenticeships, jobs, and entrepreneurship opportunities by 2025-26.

Homag India also offers training and certification on woodworking solutions to interested candidates. We have introduced a new furniture design software called SmartWOP. Any internet-savvy person can design furniture using this software. And this is just the beginning. As the proverb goes, "A journey of a thousand miles begins with a single step"!

The Indian furniture market was valued at US\$ 17.4 billion in 2021. It is predicted to reach US\$ 37.7 billion by 2026.



Looking for the better door ?

Saverland Spanplatte



WE OFFER : Support in Door Construction . following your specific requirement.

Testing in the Sauerland Lab ... regarding all technical demands. Please compare your actual door construction with the option to apply the **Sauerland Door Concept.** You will improve quality and performance. Please do not hesitate to contact us. 20, "Landmark" 4th Floor, Paud Road, Kothrud, Pune 411038. INDIA TEL: +91 7447446760 sleekboardsmarketingservices@gmail.com www.sauerland-spanplatte.de

Prime plywood solutions from Chopal Engineering Pvt. Ltd.



Directors' special (L-R): Messrs. Gaurav Chopal, Ankkit Chopal and Ashish Chopal.

Chopal Engineering Pvt. Ltd. is showcasing its entire range of plywood manufacturing machines during DelhiWood 2023. These machines help in the production of export quality plywood – without any over or core gap in the plywood.

Chopal Engineering Pvt. Ltd. Core Veneer Composer, Vertical Panel Jointer, L-Shape Composing Machine, L-Shape Panel Jointer, Edge Cutting Machine, Falli Jointer Machine, Fully automatic DD Saw and the Bolt model Peeling Machine also help bring down production costs.

Chopal Engineering is focused on automation and improving the quality of plywood with new generation machines, such as like automatic composers, automatic DD saw, calibrator and composing lines. The machines can help save labour cost by up to 75%.

Chopal Engineering products are based on international standards, with higher durability

and lower maintenance requirements. The user interface is quite easy for operations. Many of these precision-engineered, high-performance and low-maintenance woodworking machines are exported to several countries.

European technology is used to handle different processes involved in the manufacturing. Chopal Engineering uses branded products for its CNC Lathe Machine, Milling Machine, CNC Plasma Machine, MIG Welding Machine and Plano Miller Machine. This range is known for its sturdy construction, and availability in the market at competitive prices.

MrGauravChopal,Director,ChopalEngineering Pvt. Ltd., strongly believes that "quality and after-sales service is the best business plan." The company's technical support is provided by engineers professionally trained abroad.

This makes customers of Chopal Engineering the best plywood manufacturers in India. "Stay in touch with us during DelhiWood,"

WOODNEWS

Machines of Next Generation





CHOPAL ENGINEERING PVT. LTD

=EATURE

`Rotten-to-the-core' can be good too!

Fungi that decompose tree trunks can conjure up real works of art in wood. In nature, however, the decay-causing fungi not only decorate the tree but also destroy it.

Researchers at Empa, The Swiss Federal Laboratories for Materials Science and Technology, are now teaching fungi how to draw. The result is upscale, spalted wood that can be processed into design furniture, or even musical instruments!

Sometimes there is true beauty to be discovered in very unusual places. Like a Phoenix from the ashes, the coveted truffle beech made from rotting wood on the forest floor. Uniquely patterned, it has been much sought after as a raw material for furniture production since antiquity.

However, the search for natural truffle beeches is tricky. Even those who deliberately leave tree trunks to rot in the forest have to wait years before they can hope to obtain wood that is decorated with fungi-induced patterns and still usable.

'Battle' lines

Empa researchers have now developed a technology with which hardwoods, such as beech, ash and maple, can be specifically treated with fungal cultures so that the patterns in the wood can be controlled.

Dark dotting, winding lines and thin streaks of red, brown and black are known as zone lines. These are the interaction zones in which different fungi have erected barriers to protect their resources. They can also be caused by a single fungus delineating itself.

The fine black lines running through the wood are the traces of a battle. Sometimes they meander turbulently towards each other and separate small plots with a lightened background.

In other places, the dark drawings flow calmly as if they wanted to remind us of a boundary that none of the participants likes to cross. Fungi that have fought in a battle for territory and resources in the wood separate themselves from each other with pigmented lines.

With these demarcation lines, the fine threads of the fungal community not only protect their colony from other fungi but the black boundary also ensures that bacteria and insects stay away and the habitat retains an ideal amount of moisture.

What's spalting?

Spalting is any form of wood colouration caused by fungi. Primarily found in dead trees, spalting can also occur in living trees under stress. Although it can cause weight and strength loss, the unique colouration and patterns of such wood are sought by woodworkers.

The process is divided into three main types: pigmentation, white rot and zone lines. Spalted wood may exhibit one or all of these types in varying degrees. Both hardwoods and softwoods can spalt, but zone lines and white rot are more commonly found on hardwoods because of enzymatic differences in white rotting fungi.

Brown rots are more common to conifers, although one brown rot, *Fistulina hepatica* (beefsteak fungus), is known to cause spalting among deciduous trees too.



A clock 1 metre in diameter made of spalted ash, beech and maple wood, used the soft rot fungus, Kretzschmaria deusta. The wood was manufactured under controlled conditions and is adorned by dark boundary lines, a unique specimen created by Empa's industrial partner, Koster Holzwelten AG.

Pigmentation is caused when fungi produce extra-cellular pigments inside the wood. Bluestain is also a form of pigmentation. However, the pigments are generally bound within the hyphae cell walls. A visible colour change can be seen if enough hyphae are concentrated in an area.

The most common groups of pigmentation fungi are the imperfect fungi and ascomycetes (sac fungi).

The mottled white pockets and bleaching effect, seen primarily on hardwoods, is due to white-rot fungi, which "bleach" by consuming lignin. Some white rotting can also be caused by an effect similar to pigmentation.

FEATURE

Brown rots, the "unpleasing" type of spalting, do not degrade lignin, thus creating a crumbly, cracked surface, which cannot be stabilised. Both types of rot, if uncontrolled, render wood useless.

Conditions required for spalting are the same as the conditions required for fungal growth: fixed nitrogen, micronutrients, water, warm temperatures and oxygen.

'Teaching' fungi

"We were able to identify fungi growing in nature and analyse them in the laboratory to select those with the most favourable properties as wood finishers," says Hugh Morris, a scientist in Empa's applied wood materials laboratory in St. Gallen, north-eastern Switzerland.

> Wood stained blue-green by the fungus Chlorociboria. Fungi that populate dead wood generate a captivating pattern of colours and lines with pigments.

For example, the brittle cinder fungus and the Turkey-tail, when matched with each other, leave black lines caused by the pigment melanin and, at the same time, bleach the surrounding wood thanks to the fungal enzyme, laccase. "This creates a pattern with a particularly strong contrast in the wood," explains Hugh.

Depending on the combination of fungal species, the lines are wild and impetuous,

or almost geometric. The researcher is convinced that the fungi can even, in time, be trained to write words in wood!

The gentle bite of the fungi that are used in the Empa laboratory is particularly favourable. Despite their pronounced talent for drawing, the selected candidates hardly gnaw their substrata.







By controlling the spalting process of various fungi, researchers have created pictures in the colonised wood such as a sunset (L) and a spalded bowl (R) by Krista Hilge.

"Although fungi generously supply the wood with pigments, the wood retains its stability and shape," says Hugh.

However, the fact that the artistic process can be controlled and geared towards the desired result is not only owing to the type of fungus, the researchers also developed a process, with which the wood is ready for processing within weeks.

Conditions required for spalting are the same as the conditions required for fungal growth: fixed nitrogen, micro-nutrients, water, warm temperatures and oxygen.

Many applications

With the new technology, spalted wood can now be produced faster, more sustainably and with the desired marbling.

One of the reasons for this rather fast processing is that the selected fungal species can grow in the wood with considerably lower moisture levels. This means that the raw material does not have to be dried long, costly or energyintensive before being processed into furniture.

Together with the industry partner, Koster Holzwelten AG, the researchers are now in the process of implementing an efficient and ecologically sustainable production method. This also includes the use of regional wood.

"Beechwood is a hardwood that is common in Switzerland, but appears uninteresting to furniture designers," explains Koster Holzwelten's Managing Director, Jakob Koster.

With spalted wood from local beech trees, however, it is possible to offer sought-after products on the Swiss timber market with an annual volume of around 3 billion Swiss Francs.

In addition to furniture, parquet floors and kitchen fronts, spalted wood can also be used for decorative objects and musical instruments. Unique pieces have always been created from patterned wood.

Depending on the kind of fungi used, the course of the pattern in the wood can be controlled.



German Hoses for Panel & Wood Industry Dust Collector Hoses

Our products are widely used by almost all type of Modular kitchen, Furniture, Plywood, Particle board, Rub wood manufacturers throughout India, for sorts of CNC Routers/ Boring/ Engraving machines – Edge benders/ Panel saw/ Planers / Rip saw / Finger jointing & Dust collectors.



106, Kailashpati Chamber Reid Road, O/S. Panchkuva Gate, Ahmedabad - 380002

FLEXAFLEX HOSES INDUSTRIES No. 51, Dr. Nanjappa Road, Coimbatore - 641 018

Canadian wood scores on value, versatility

Excellent examples of use of Canadian wood species by Indian furniture manufacturers come from this Yellow cedar door and frame (L) by Artius, and a Yellow cedar luggage rack by EVoWood (R).





The last 3 years have seen the world reset its lifestyle buttons in numerous ways, one of which has been a major shift to sustainable living. It is easy to see why architects and real estate developers are constantly coming up with initiatives and contemporary designs that are

rooted in biophilic design.

This includes incorporating elements like plants and wood, as well as organic use of natural lighting, ventilation and water, to not only boost health and quality of life, but also cut down cost of energy.

With environmental consciousness on an all-time high and the rising emphasis on

biophilic designs, Canadian Wood is taking the lead worldwide, including in India, as it involves a major use of sustainable and natural materials like lumber.

It is not only sought out for aesthetics, but has proven to have engineering as well as health benefits.



Surface Finishing Solutions

















Application Training





caple.in

Sustainability quotient

The wood is sourced from British Columbia's renewable and certified forests that are managed and monitored in an environmentfriendly manner and follow strict forest laws.

Products manufactured from these harvested forests require little fossil fuel energy and are also known to store carbon and keep it out of the atmosphere.

Canadian Wood offers a range of wood species, which include Western Hemlock, Douglas Fir, Yellow Cedar, Western Red Cedar and Spruce-Pine-Fir (SPF). Each of them has distinct features that make it suitable for a specific application or a range of applications – from structural to furniture, door frames to artefacts. Timber houses and buildings score high on longevity and durability. When it comes to thermal resilience, wood is known to be 400 times more resistant to heat than steel.

While wood species have also been proven to withstand natural hazards like earthquakes, high winds and termites, the high levels of organic chemicals like extractives found in wood prevents rot and decay.

Tech-friendly

Apart from the soothing aesthetics it offers to the eyes, a house or office with wood décor has been reported to have a positive impact on the mind and body of its occupants. The warm ambience not only lowers stress levels, but also enhances productivity and optimism and promotes healthy emotional life.

When developers take into account

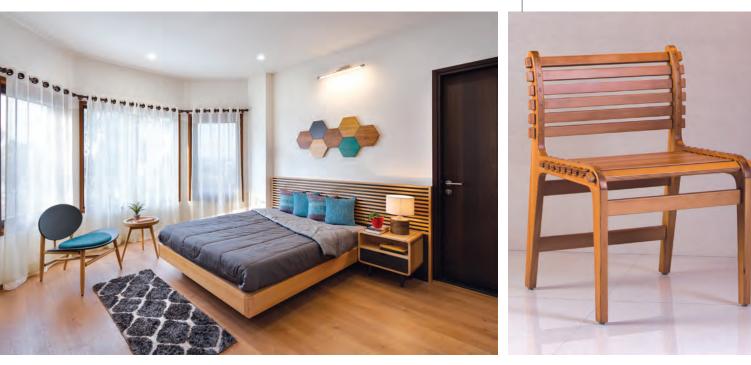
acoustics – wood is known to have soundabsorbing qualities – it adds even more value to the experience.

The Canadian forest industry continues to address environmental issues through research and technology. This has helped provide solutions to issues like fibre loss during harvesting and manufacturing processes.

It aims to finding ways to use energy derived from residuals like barks and sawdust and also, making timber structures fire-proof by incorporating smart fire protection technologies.

Learn more about Canadian Wood at www.canadianwood.in.

Western hemlock bed set made by MAS Furniture (L), and SLV's chair, also made from Western hemlock.





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.

SMANGOON 110

STEEL—BELTS—AND-SERVICE—SUPPORT-FOR—THE—INDIAN— WBP—INDUSTRY—



IPCO is a world-leading manufacturer of premium quality steel belts used in the production of wood-based panels.

Choose IPCO as your partner in WBP productivity and get the best of all worlds: 'Made in Sweden' quality; the strength of a global business; and the local understanding of an Indian-based sales and service team.

- Swedish-based multinational: 600 employees, 30+ sales/service offices.
- World class belt manufacturing: 1.2 to 3.5 mm thick, up to 4620 mm wide.
- Engineering expertise based on 120 years' partnership with wood industry.
- Certified to ISO 9001:2015, ISO 14001 and ISO 45001:2018.



ipco.com/wbp

Preservatives for coatings, paints under threat



The European Council of the Paint, Printing Ink, and Artist's Colours Industry (CEPE) has launched a campaign highlighting the threat to the availability of preservatives, which are used to extend the useful life of everyday items such as coatings, inks, cleaning products and personal care items.

The industry is increasingly concerned that the current European Union regulations and review processes are leading to more preservatives being phased out and no new products are being approved to take their place.

Christel Davidson, Managing Director of CEPE said: "The current regulations have created a lengthy and costly system, where manufacturers of preservatives rarely bring new substances to the market. In addition, a new review programme is leading to a reduction in the number of existing preservatives. The situation is now reaching a breaking point."

Preservatives are important in extending the useful life of products such as consumer paints and inks, which are waterborne. Without preservatives, the presence of water allows microorganisms (bacteria, yeast, fungi or algae) to grow, causing damage to the coating product in the can or to the finished coated surface.

This would lead to an increase in wasted product and a need for more frequent repainting – directly contradicting the EU's 'green' and 'circular' ambitions.

Complex system

The Brussels-based (Belgium) CEPE is urging regulators to amend the requirements of the Biocidal Product Regulation (BPR), which governs authorisation and use of preservatives.

As a first and immediate step, allowing risk assessment at the product authorisation stage should be made possible. This should overall lead to a more holistic approach to impact assessments, contributing to a better decision-making process and avoid defacto bans.

"The current regulations are simply not fit for purpose, and we face the very real risk of having no preservatives available for key products like paints, printing inks and artists' colours," Christel said. "We need

EPCH Wood Test Lab

NABL & ISTA Accredited Laboratory

Evaluation and Tests for Woodware

Structural Strength and Durability

Moisture Content

Drop Impact

Transportation Vibration

Chair Seating Impact / Durability Hardness of Coating / Film Tension, Compression Force / Durability

Load Capacity / Impact / Durability

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



Handicrafts Productivity Centre C/o Export Promotion Council for Handicrafts (EPCH)

C/o Export Promotion Council for Handicrafts (EPCH) IS-2033-A, Ramchandrapura, Sitapura Extn., RIICO Industrial Area, Near JECRC University, Jaipur-302022, Rajasthan Mob: +91-9983321833; E-mail: jaipur@epch.com action now to make sure that manufacturers can continue to supply existing preservatives, so that our members can continue to make properly preserved paints and inks, while encouraging the innovation and development of new preservatives for the future."

Since the BPR entered into force, a very complex system has developed. As a consequence, manufacturers of preservatives rarely bring new preservatives to the market. At the same time, there is a safety review mechanism that is reducing the number of existing preservatives that can be used.

The second key issue is that packaging and labelling legislation also contributes to the reduction of available preservatives. When substances receive a harmonised classification (CLP Regulation), specific concentration limits can be set. These limited values can result in a ban of the use in consumer products, such as paints.

Together the BPR and CLP Regulation can eliminate all options to effectively preserve products in the next few years.

Risk assessment

Are there alternative products available? Preserved waterborne paints are safe when used as prescribed by the supplier. For specific applications (for example matt indoor paint), certain paints have become available without preservatives.

However, these are not without drawbacks. These paints require extra care due to their high pH levels and have to be manufactured in a very costly, hygienic setting and are not transferable to general applications.

The CEPE suggests a shift to a broader impact assessment for every substance evaluated under the BPR programme. If the impact

assessment discovers no available alternatives, continued use should be allowed.

Risk management measures need to be based on an overall risk assessment instead of a simple alignment with the CLH process. The CLH process uses intrinsic hazards, such as skin-sensitising properties, to define concentration limits and requires the use of warning labels.

However, this does not constitute a safety limit addressing an identified risk. In contrast, the BPR requires an evaluation based on an overall risk assessment and, therefore, should not be simply aligned with the hazard classification limit of the CLH.

When risk assessment is conducted at product level, the assessment takes a holistic view of the product which is most appropriate. It also prevents artificial limitation as when applied at the earlier substance approval.

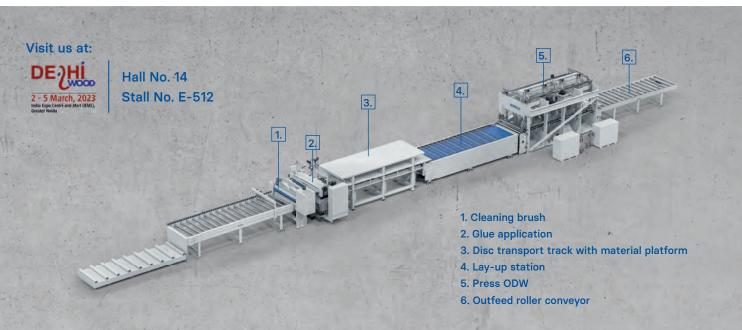
An in-depth evaluation of the BPR is scheduled for 2025 which can be the basis for further action, feels the CEPE leadership. Given the apparent shortcomings, the preparation for the BPR revision should start as soon as possible in order to bring the review forward.

Coatings have intrinsic sustainability credentials since they protect and extend the lifetime of surfaces and products. In addition, the coatings industry has a longstanding commitment to sustainability, the CEPE stressed.

One of the most significant developments these last years is the shift from solventborne to water-borne coatings. This shift is positive, but is only made possible by introducing or increasing the levels of preservatives contained in the coatings, Christel notes. (www.cepe.org).







Compact door production line with ODW Press Line

FACTS

- Modular line design with various line upgrades and options
- Adjustable pressing times and specific press pressures
- Adjustable glue application by means of 4 roller-glue spreader
- Assembly of components in the line or assembly of pre-fabricated components
- Press heating with hot water including temperatur regulation
- Including safety fences
- Including documentation and operating manual

ROBERT BÜRKLE GMBH

BÜRKLE is among the world market leaders in the field of pressing and surfacefinishing technologies.

We plan and manufacture e.g. machines and lines for the future, wood-based panel, door, parquet and building industry.

BÜRKLE has stood for quality, customer orientation and innovative strength since 1920. We guarantee our customers a fast, personal and individual service through our international orientation.

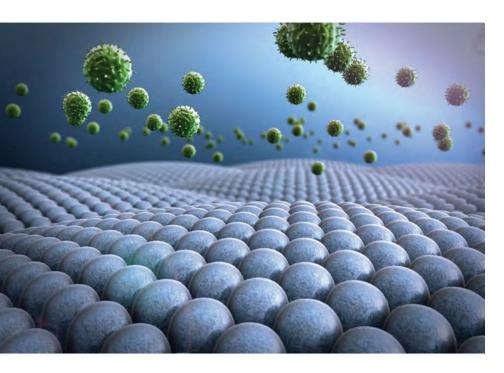




Aranya Wood Workz Unit. No: 602-B, Vasai MPM Building, 6th level, 5th floor, Near Ameerpet Metro Station, Ameerpet, Hyderabat-500073

www.aranyawoodworkz.com info@aranyawoodworkz.com +91-96668867282 **FEATURE**

Emerging market for anti-microbial coatings



The Covid-19 Pandemic's impact on both consumers and the worldwide economy has been far-reaching and is reshaping the market for anti-microbial coatings.

In the past, the biggest drivers for smart anti-microbials have been healthcare-acquired infections (HAIs) and antibiotic-resistant bacteria. Covid-19 has broadened the demand and also given prominence to the role of "smart coatings", meaning the ones with the greatest functionality.

Industry analyst firm N-tech Research recently published a report titled, 'Smart Anti-bacterial and Anti-viral Markets, 2020'. In the study, the firm projects that the market for smart anti-bacterial and anti-viral products will reach € 1.1 billion by the year 2025.

This number includes both smart coatings and smart surfaces.

Smart surfaces include products factorycoated with anti-microbials and surfaces with nano-texturing that provides them with an anti-bacterial functionality.

The materials that are explicitly covered in the report are nano-silver, copper, hydrogels, chitosan, silanes, sulphates, graphene and carbon nano-tubes and liquid metals, among many others.

It also examines the role of bio-materials and bio-technology in shaping markets for smart anti-microbials/smart virucides. The end-user segments covered in the report comprise both medical industry markets along with industrial residential markets.

Established smart materials-selfcleaning and self-healing coatings and surfaces-are already important in providing anti-microbial functionality. For example, Affix Labs and others have introduced an anti-viral coating with self-cleaning technology, based on silane quaternary ammonium. Polymeric biocides are distinctly smart: they embody anti-microbial haracteristics with self-healing ability. DSM Biomedical offers an anti-microbial coating that selfassembles and is based on hydrophilic technology.

Hydrogels, another smart material, are sometimes claimed to have considerable promise because they can incorporate and/or release anti-microbial agents.

In the future, N-tech Research expects a flood of material innovations to stop the spread of bacteria, especially viruses. Novel materials including anti-microbial peptide coatings, organosilane nano-coatings and liquid metals are forecast in the N-tech Research report to reach € 196.3 million for anti-bacterial use.

By the year 2025, smart anti-viral coatings are expected to generate \in 294 million in revenue, with much of this coming from pre-existing products that have been re-purposed for the age of Covid-19.

Re-branding or re-purposing existing products enables suppliers to quickly move into the rapidly growing market for anti-virals. An example of this strategy is provided by Airdal with a brand of anti-microbial coating that it has re-marketed as an anti-viral. Airdal's product is "powered" by Liquid Guard, an established anti-microbial coating.

In the past, consumers have been reluctant to buy smart anti-microbial products because of their high price and short life. Today this has changed as "smart" anti-microbials and are justified on the basis of health, economic and societal requirements. A major focus of anti-microbial R&D is to make themmore cost-effective and give them longer lifetimes.



NC DOVETAIL

Excel at Your Desired Shaping & Make Work Simpler



FALGUNI ENTERPRISES

18, Shree Gopal Nagar,Near 21 No. Bus Stand, Panchyawala, Sirsi Road, Jaipur-302034 (Raj.) India E-mail : falgunienterprises0107@gmail.com Contact : +91-8890337607 Website : www.fewcut.com | GSTIN: 08ASTPM6024H1ZD

In cooperation with

Excellent Industrial Machinery CO., LTD

Contact Detail: excell6@ms36.hinet.net www.copyshaper.com

JUN SHIAU MACHINERY CO., LTD



SANDERSON WIDE BELT SANDER



2 - 5 March 2023

Visit us at: Hall No - 15, Booth No - C-304



BRUSH SANDER



FALGUNI ENTERPRISES

18, Shree Gopal Nagar, Near 21 No. Bus Stand, Panchyawala, Sirsi Road, Jaipur-302034 (Raj.) India E-mail : falgunienterprises0107@gmail.com Contact: +91-8890337607

Website : www.fewcut.com | GSTIN: 08ASTPM6024H1ZD

In cooperation with

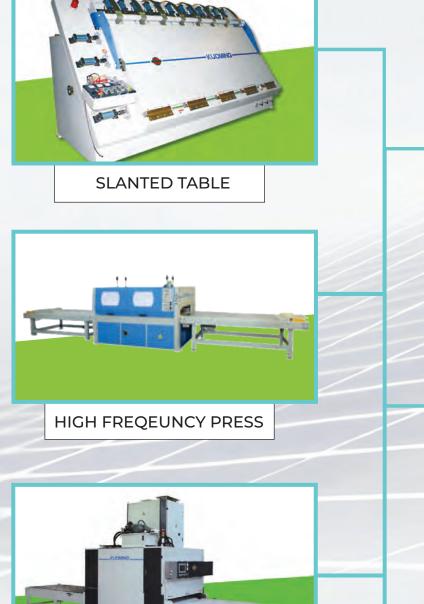
JUN SHIAU MACHINERY CO., LTD

Address: No.100, Sec. 1, Guofeng Rd., Shengang Dist., Taichung City 42942, Taiwan Contact Detail: Tel : +886-4-25277165 Fax:+886-4-25239786 Web : www.sander.com.tw Email: sales@junshiau.com.tw, sales@sanderson.com.tw



Visit us at: Hall No - 15, Booth No - C-304





H.F SANDWICH PANEL GLUING





HF LAMELLA PRESS 3-60mm





FALGUNI ENTERPRISES

18, Shree Gopal Nagar,Near 21 No. Bus Stand, Panchyawala, Sirsi Road, Jaipur-302034 (Raj.) India E-mail : falgunienterprises0107@gmail.com Contact : +91-8890337607 Website : www.fewcut.com | GSTIN: 08ASTPM6024H1ZD

In cooperation with

Kuoming Electric Co., Ltd.

Contact Detail:

Tel: +886-425365986 Fax: +886-425367239 E-mail: trade@kuoming.com.tw, service@kuoming.com.tw Website: www.kuoming.com.tw

Visit us at: CHI ING **DE**) WOOD 2 - 5 March 2023 Hall No - 15, Booth No - C304 CNC MITER TENON & MORTISER CNC BORING CENTRE 5 & 6 Axis CNC DRILLING HINGE INSTALLATION MACHINE OSCILLATION MORTISER **ROUND END TENONER**

FALGUNI ENTERPRISES

18, Shree Gopal Nagar, Near 21 No. Bus Stand, Panchyawala, Sirsi Road, Jaipur-302034 (Raj.) India E-mail : falgunienterprises0107@gmail.com Contact : +91-8890337607

Website : www.fewcut.com | GSTIN: 08ASTPM6024H1ZD

CHI ING INDUSTRIAL Co., Ltd.

Address:

In cooperation with

NO. 145, Sec. 1, Tyan Hsin Rd., Feng Yuan Dist., Taichung 42058, Taiwan **Contact Detail:** E-mail: apexrouter@kimo.com Website: http://www.chiing.com.tw

Lets Walk Tree To Table Together

JUAN NAN ENTERPRISE,LTD





Visit us at: Hall No - 15, Booth No - C-304





ROTARY COMPOSER



HYDRAULIC & PNEUMATIC CLAMP CARRIER



AUTO FINGER JOINTING LINE



FALGUNI ENTERPRISES

18, Shree Gopal Nagar,Near 21 No. Bus Stand, Panchyawala, Sirsi Road, Jaipur-302034 (Raj.) India E-mail : falgunienterprises0107@gmail.com Contact : +91-8890337607 Website : www.fewcut.com | GSTIN: 08ASTPM6024H1ZD

JUAN NAN ENTERPRISE,LTD

Address:

In cooperation with

No.40,KUAN-YUAN ROAD,FENG-SHAN DISTRICT,KAOHSIUNG,83002 TAIWAN **Contact Detail:**

E-mail: juannan6@ms3.hinet.net Website: http://www.juannan.com





Visit us at: Hall No - 15, Booth No - C-304

SUPERIOR CUTTING ALL AT ONCE



FACE & TOP SAW GRINDERS

In cooperation with



FALGUNI ENTERPRISES

18, Shree Gopal Nagar,Near 21 No. Bus Stand, Panchyawala, Sirsi Road, Jaipur-302034 (Raj.) India E-mail : falgunienterprises0107@gmail.com Contact : +91-8890337607 Website : www.fewcut.com | GSTIN: 08ASTPM6024H1ZD



Address: No. 145, Lane 565, Pu Tsu St. Feng Yuan Dist. 42072 Taichung, Taiwan Contact Detail: E-mail: ken@xtra-sharp.com Website: https://xtra-sharp.com

RI-CHEN MACHINERY CO.LTD



Visit us at: Hall No - 15, Booth No - C-304





HANGING TYPE SPRAYING MACHINE



AUTOMATIC SMALL TYPE TURNING **SPRAYING MACHINE**



SPRAYING MACHINE



CART CONVEYOR FINISHING LINE



UV COATING SPRAY LINE



FINISHING LINE FOR CHAIR LEGS, BASE BALL STICK, CRICKET BATS, ETC

Lets Walk Tree To Table Together

FALGUNI ENTERPRISES

18, Shree Gopal Nagar, Near 21 No. Bus Stand, Panchyawala, Sirsi Road, Jaipur-302034 (Raj.) India E-mail : falgunienterprises0107@gmail.com Contact : +91-8890337607

Website : www.fewcut.com | GSTIN: 08ASTPM6024H1ZD

In cooperation with

RI-CHEN MACHINERY CO.LTD

Address:

NO.27-1,Sankan Rd.,Sankan Li,Waipu District,Taichung City,Taiwan **Contact Detail:**

E-mail: richentw@ms55.hinet.net Website: http://en.richen.com.tw Youtube Channel: https://www.youtube.com/@richentw

US red oak takes the spotlight in Dubai office



The remarkable centrepiece is a 3.5-metre-high organic element suggesting a massive, ancient tree. A carpet made from recycled plastic bottles adds sound-proofing and underfoot comfort to the seating areas.

NIU, a dynamic multi-disciplinary, award-winning boutique design studio based in Dubai, recently unveiled the interiors of the new Umm Al Quwain Free Trade Zone Authority headquarters.

Driven by its passion for design, eye for detail, quality and perfection, the studio was tasked with designing a space that was, as per the client brief, a fresh, simple and friendly environment, with as many natural elements as possible, to welcome stakeholders into the three main floors of the office.

The design phase started in September 2020 and ended in May 2021, in the middle of the Covid-19 pandemic. Because of this, it was obvious that the design had to include specific details for the safety of guests and employees.

The challenge was to create a stimulating, but visually appealing interior around the already existing massive structural columns that could allow for visitors to maintain their social distancing and comply with flow guidelines, within the limited space.

The architects' immediately considered nature-inspired elements and so they decided to use timber slats. Taking advice from the American Hardwood Export Council (AHEC), American red oak was used to create louvres to conceal the structural columns, but also to provide discreet lighting and suggest separate areas while maintaining open sightlines.

Floor planning

The remarkable centrepiece is a 3.5-metre-high organic element suggesting a massive, ancient tree.

According to the architects, the existing floor plan was shaped like a segment of a ring, which further increased the design challenge. Not only do the impressive, suspended floor-to-ceiling organic shaped oak elements add drama and elegance to the area, they also serve to create partitions and to divide the space whilst maintaining an open-plan concept.

In addition, the louvred oak provides visual privacy and sound absorption.

A customised seating area was also constructed at the base of the tree trunk and spread about in comfortable pebbleshaped pouffes. Solid and veneered oak louvres were used to add interest and dimension to the glass façades of the closed meeting rooms.

The area is flooded with natural daylight due to the floor-to-ceiling, wall-to-wall windows on two sides. At the main entrance, the 8-metre-high ceiling of the main reception and information desk

- Wide Range of Models
- Varied Technical Parameters
- Easy Selection for a Specific **Machine Model**



INNOVATIVE TOOLING SYSTEMS FOR PANEL PROCESSING INDUSTRY

NEXT GENERATION DIAMOND TOOLINGS







INDIA's 1st **Manufacturing Plant with** EUROPEAN TECHNOLOGY

TCT BRAZED & REPLACEABLE TOOLINGS

PREMIUM CLASS CARBIDE Increased tool life



WIDE RANGE OF GEOMETRY Alternative solutions



POLISHED SPIRAL Perfect Chip Ejection



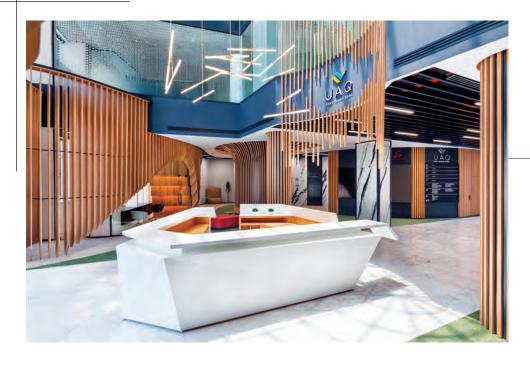
WIDE RANGE OF SIZES Tool personalization

ACCUTEC TOOLING

Sales & Services Center Located at every

METRO CITY IN INDIA





At the main entrance, the 8-metre-high ceiling of the main reception and information desk is flooded with natural daylight due to the floor-to-ceiling, wall-to-wall windows on two sides.

makes a bold statement in white Corian.

Commenting on the decision to use American red oak, the architects said: "The particular natural colour and veins of this species were selected and incorporated into the project from the design stage. It remained a characterising element of the project, giving it a plus value highly appreciated by the customer and users of the space."

Red oak

To manage traffic flow and also comply with Covid-19 guidelines, the white Carrera marble floor links the main entrance to the rear door and elevators. Adding some contrast, a few of the structural columns were rendered in ceramic.

In addition, NIU specified a sustainable carpet made from recycled plastic bottles, which adds sound-proofing and underfoot comfort to the seating areas.

According to Roderick Wiles, AHEC Regional Director, the amount of red oak that was used for the project equalled 2,300 cubic feet.

"This means that 69.5 metric

tonnes of CO2 were kept out of the atmosphere as part of carbon capture feature," he added.

Red oak is the most dominant species in the US hardwood forests with distinctive grain and wood that is not always red in colour. These trees grow only naturally and almost exclusively in North America, although they can be planted elsewhere.

Forest Inventory Analysis (FIA) data shows that red oak is 18.7% of the total US hardwood growing stock. While 33.9 million cubic metres of American red oak is harvested each year, more than 32 million cubic metres is naturally growing over the same period. Generally, the sapwood of red oaks is light brown and the heartwood is often pinkish to reddish brown. American red oaks have very good overall strength properties relative to weight. Its main uses are furniture, flooring, doors and certain construction applications.

For more information, visit www. americanhardwood.org. You may follow AHEC on @ahec_india.

> The louvred oak provides visual privacy and sound absorption, adds interest and dimension to the glass façades of the meeting rooms, serves to create partitions and to divide the space in an open-plan concept.







INNOVATIVE LASERS PRIVATE LIMITED

Mobile : +91-9663368018

INDIA OFFICE

- Email : info@innovativelasers.in
- WEB : www.Innovativelasers.in
- ADD: #78, 1st Main, 2nd Phase, 4th Stage, BEML Layout, Rajarajeshwari Nagar, Bengaluru-560098. INDIA.

TEL: +886-4-25238221 FAX: +886-4-25289737

- Email : wen-chih@umail.hinet.net
- WEB : www.wenchih.com
- ADD : No. 3, Alley 37, Lane 535, Sec. 2, Feng Shih Rd., Feng Yuan Dist., Taichung, Taiwan

Specialized High Quality Woodworking Cutters

Cutting with Perfection



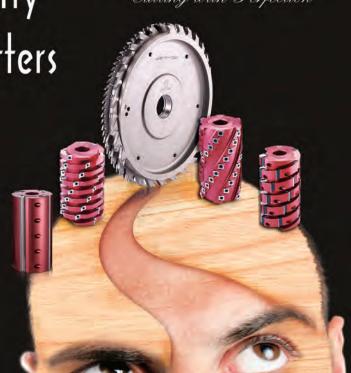
TONG FONG CUTTERS CO., LTD.

420084 No. 17, Lane 426, Pei Yang Rd., Feng Yuan Dist., Taichung City, Taiwan TEL:+886-4-2522-8562 FAX:+886-4-2528-1127

E-mail: tfcutter@ms47.hinet.net



www.tongfong.com.tw



- 4-side Moulders' Cutterheads
 4-side Moulders' Profile Cutters
- Helical Planer Cutterheads for 4-side Moulder, Spindle Shaper and other Specialized Machinery
- Round Rod Milling Cutters TCT Changeable Knives

Wood-Mizer puts 'Strawberry Train' backon track



Wooden passenger cars of this type (Left, now restored) were produced in Spain until the 1930s. Restoration of the wooden cars of 'Strawberry Train', a heritage tourist attraction, involved reverse engineering (R).



JUAN MANUEL MIRANDA

Wooden passenger cars of this type were produced in Spain until the 1930s. A total of 406 units were made and used as third-class carriages on passenger trains running along the Spanish coast.

When metal wagons were introduced, the railway companies were reluctant to order them since the summers in Spain were hot, and the wooden wagons were easier to keep cool.

In 1972, the third class for passengers was abolished, and companies faced a choice – to upgrade the wooden cars to

second class status or to stop using them.

However, the upgrade price was too high, and the purpose of the wagons was changed. They turned into housing, a mobile workshop, a shop, and a school, and one such car is currently used as a meeting room in the office of Renfe Viajeros, the train operator.

Vintage wooden carriages were brought back in the '80s with the introduction of the tourist 'Strawberry Train', a top-rated journey in vintage carriages, from Madrid to Aranjuez and back, through many of the attractions of the Madrid community.

The 'Strawberry Train' consists of four passenger cars and two vans. However, moisture and time gradually destroyed the wooden elements of the structure, so there was a need for a complete renovation.

Planning operation

"We immediately ran into a problem: we needed drawings of the wagons so that the person who would repair them could restore the wagons while maintaining their original design," said Juan José Peña, technical specialist at Renfe Viajeros.

"We proceeded from the Riga Charter which, on the one hand, tells us that the purpose of reconstruction is to preserve and reveal the importance of cultural heritage, and on the other hand, that authenticity must be preserved in this **>**



"7th Generation High Speed & High Quality" Spindle-less Log Peeling Machine With In Built Cutting System"

=== MADE IN INDIA ===



SPINDLE - LESS LOG PEELING MACHINE WITH IN BUILT CUTTING SYSTEM

Model: SL-125

High Speed Long Life Easy Operations Specially Designed for 16 inch dia logs Easy Peeling Softwood & hardwood Thickness Tolerance 0.075 +\-Easy Maintenance Dual SERVO System Auto Tilting Systems P/Bar & Knife Digital Servo Cutting Control System Maximizing Yield High Productivity

DESIGNED BY & MANUFACTURER EXPORTER OF PLYWOOD VENEER MACHINERY

GURU AMAR INDUSTRY LIMITED

E-30,31, Industrial Area, YAMUNA NAGAR - 135001 (HARYANA) INDIA Tel: 01732-257577, 01732-257520 Mobile : +91-98120-25062, +91-98122-00053 Email : guruamarindia@gmail.com Website : www.guruamar.com



Woodworker Emilio González Rodriguez is a fan of his Wood-Mizer LT20 mobile sawmill.

process (including the method, design, materials, and applications), convincingly testifying to the significance of this object," he added.

Where the original plans indicated that the wood should be oak, that species was used. In other cases, where plans told that the exterior cladding would be in teak wood – which is not currently available – the wood of similar characteristics, Iroko (also known as African teak), was chosen.

"We opened up the insides of these cars, not knowing what awaited us, based solely on plans more than a century old, because the cars themselves are almost 100 years old," Juan said.

The four carriages of the 'Strawberry Train' were built in 1920, 1923, 1927 and 1929 by different manufacturers, so they differed in design. Interestingly, the oldest one (1920) was in the best condition!

Efficient equipment

In this project, woodworker Emilio González Rodriguez was invited to work with the wagons, particularly for producing wooden elements. He arrived at the workshops of Renfe Viajeros with his Wood-Mizer LT20 mobile sawmill. "I'm a Wood-Mizer fan! This machine is my best assistant," said Emilio. "Thanks to my sawmill, I did most of the work to restore the cars."

The Wood-Mizer sawmill doesn't just saw logs; it makes precise cuts, which is very important when you make separate details. "I saved a lot of both, wood and time," Emilio added.

The LT20 sawmill has a built-in electronic device that saves the required board

dimensions in the microprocessor memory so that the machine works flexibly and quickly.

At the beginning of the project, 16 beams were required for each car. In the end, there were approximately 40. Emilio made parts for all the windows and shutters -20 in each wagon. Then he moved on to interior details: handrails, railings and floorboards.

"Do you know what is important to me? I did it myself! A typical sawmill would need at least one more person involved," Emilio beamed. "This is a fast and accurate machine that will last you a lifetime if you take good care of it."

Advanced engineering

The Wood-Mizer distributors in Spain taught Emilio how to operate the machine. They are always willing to be contacted if their clients have any questions.

The project also involved a restorer, Andrea Novosad. Her task was to restore the preserved elements. She also treated the wooden parts with wood-borer preservative, colour matched with dyes, and finished them.

For metal parts, the process was similar; it involved grinding and painting with anti-

To maintain authenticity, the original plans, methods and materials were used.





corrosion and protective enamel.

"New parts are created with the use of the Wood-Mizer sawmill. My job is to protect them, paint them and finish them," said Andrea.

"The great thing about these cars is that they have amazing engineering

behind them. They are not just boxes covered with wooden slats. They are well-thought-out fitting, unloading, and fastening systems that need to be learned and preserved," Andrea said, adding: "It is incredible luck that these old carriages are not lost!" (Courtesy: Wood-Mizer Asia).

These restored wooden carriages are an important historical heritage of the Spanish railways.



Office Information - 3F, No.2, Lane 93, Chien-I Road, Chung-Ho Dist., New Taipei City, 235602, Taiwan TEL: +886.2.8227.6730 FAX: +886.2.8227.6729 Email: info@sinoxlock.com

www.sinoxlock.com

Japanese exhibition highlights Hida craftsmanship





Pix: Jérémie Souteyrat, Japan House, London.

The Carpenters' Line exhibition hosted by Japan House, London, came to an end in January 2023. The event uncovered the art of master woodworking from the densely forested Hida region of Gifu Prefecture, central Japan.

The title refers to both the lineage of woodworking in Hida and a *sumi-nawa*, a fundamental Japanese carpentry tool used to create inked lines on wood.

This exhibition explored tools, techniques and products synonymous with Hida's woodworking heritage. The event also arranged a series of events and workshops on Hida's carpentry culture in collaboration with experts from Japan.

From the raw materials of the Hida

forests and the tools developed to work them, to the involvement of Hida craftsmanship in global furniture design of today, visitors at the exhibition were immersed in extraordinary craft working legacy.

Hida heritage

The city of Takayama, in Gifu Prefecture, has maintained a vibrant woodworking tradition for over 1,300 years, developing in that time an international reputation for its highly skilled carpenters.

First recorded in the 8th century CE, the woodworking skills of these craftspeople were provided to the imperial capital in place of taxation, such was the importance placed upon the carpentry techniques originating in Hida.

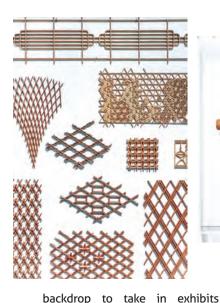
It was the extraordinary skill of these Hida craftspeople that built many of the

famous shrines and temples still seen in the ancient capitals of Nara and Kyoto today.

The practice of woodworking still thrives in Hida, with internationally renowned workshops well known for their collaborations with international designers, the results of which can be seen in museum collections across the globe.

The visitors at The Carpenters' Line not only encountered a series of installations about Hida's woodworking legacy, but also got to immerse themselves in the sights, sounds, and even smell of Hida's forests.

Lush green mountain scenery printed on wall-to-ceiling curtains, a 24-hour sound cycle from the forest and the fragrant scent of cypress transported the visitor's senses to Hida, providing the perfect



showcasing carpentry techniques,

technology, materials, products,

Japan House London offered

guests a chance to delve deeper

into Hida and its craftspeople

through a series of panel

discussions, events and workshops

that gave insight into wood-



crafting techniques, material and technology.

From *ichii ittō-bori*, or sculptures carved from Japanese yew and *mageki* (wood bending), a vital element of contemporary furniture making, to latticework and masterful joining techniques, The Carpenters' Line highlighted the materials and techniques from this region of Japan, through video, displays and a rich variety of exhibits.

This exhibition also shed light on the

skills and lives of those people whose livelihoods have depended, and still depend, on working with the natural materials of their local environment.

Japan House London is a cultural destination offering guests the opportunity to experience the best and latest from Japan. Presenting the very best of Japanese art, design, gastronomy, innovation and technology, it deepens the visitor's appreciation of all that Japan has to offer. To know more, visit www. japanhouselondon.uk.



and people.

Wood-bending

Vacuum Solutions for Router Bed & Membrane Press



Spanish building wins 'certified timber' prize



Paseo Mallorca-15 by Ohlab architects is the winner of the 2022 'Best use of Certified Timber' prize, supported by the PEFC (Programme for the Endorsement of Forest Certification).

The prize recognises architects for their use of certified timber as a

key element of their project and something that makes it stand out in terms of sustainability, innovation, quality and aesthetics.

The World Architecture Forum and PEFC awarded the prize for the fourth time.

Set on a tree-lined promenade in the heart of the Spanish city of Palma de

Paseo Mallorca 15 is a new residential complex in the Spanish city of Palma de Mallorca, with sustainability and energy efficiency at its heart.

Mallorca, Paseo Mallorca 15 is a new residential complex for client Ramis Promociones and has sustainability and energy efficiency at heart.

The striking façade, supplied by grupo Gubia, is made of PEFC-certified Scots pine that has been thermally modified due to the building's close proximity to the sea.

This treatment gives the timber minimal contractions and expansion movements. Vertical timber slats are brushed on all sides, with different sections and separations, and then fixed to an anodised aluminium frame.

More than 350 fixed and sliding timber panels change the vision of the building continually and act as a solar filter.

The design reflects traditional Majorcan carpentry and, according to Ohlab, is a "re-reading of the island's traditional materials and systems carried out in an abstract and contemporary key, creating a building that seeks to be totally efficient and sustainable, as well as creating a pleasant and stimulating sensory experience for its inhabitants".

Two types of facades define the exterior of the building. A permeable skin of wooden slats filters the sun, playing with light and shadow in the daytime area of the dwellings. Another stony facade protects the bedrooms.

The project has been designed according to Passivhaus standards to achieve maximum energy efficiency and to provide a healthy, comfortable living environment. Passivhaus standards aim to achieve an air-conditioning demand of

MEET OUR NEW HIGH PERFORMANCE RIPPING SOLUTIONS

MR 200



THE NEW MR200 DOUBLE ARBOUR RIP SAW

increases the productivity of a sawmill operation by significantly reducing the amount of work and time needed to rip cants into boards.

MR200 FEATURES:

- Two Adjustable Arbors with up to 12 Saws Per Arbor
- Three Driven Press Rollers on Infeed and Outfeed for Effortless Feeding of Cants
- Control Panel with Individual Controls for Each Arbor
- Laser Line for Precise Gang Sawing
- Optional Built-in Chipper

EG800 INDUSTRIAL RIP SAW / BOARD EDGER

is designed to offer a twofold solution to small and medium-sized sawmills. This robust machine edges material up to 40mm thick at high speeds, making it the ideal companion to the Industrial Resaws.

EG800 FEATURES:

- Quick and easy maintenance
- Variable feed speed, up to 130 m/min
- Can rip boards up to 107mm thick
- Can be used as Board Edger or as a Multiple Rip saw
- Heavy duty modular rollers

CONTACT YOUR REPRESENTATIVE TODAY

CONTACT DETAILSBobby Joseph- +919847169999info@woodmizer.inwww.woodmizer.in







The judges praised the project for its 'masterful control of light' and technical innovation.

less than 15 kW per hour, meaning heating and cooling requirements are reduced by up to 90% compared to a conventional building.

The winner was announced at a gala dinner on 2 December, by PEFC's Head of Marketing, Fabienne Sinclair. The judges praised the project for its "masterful control of light" and "timeless beauty and technical innovation".

"The building shows the many ways that PEFC-certified material can deliver sustainability to global building design," said Fabienne Sinclair.

In addition to the winning project, the jury honoured the Växjö Town Hall and train station project by Sweco with a 'Highly commended' prize. One of the largest wooden buildings in Sweden, Växjö was built in skeleton construction with a wooden frame of PEFC-certified cross-glued wooden elements, and Binderholz CLT ceilings.

The many visible wooden elements inside the building, such as ceilings, wall coverings, floors and stairs, help create a warm and welcoming feeling.

One of the largest wooden buildings in Sweden, Växjö Town Hall and train station is built with a wooden frame of PEFC-certified cross-glued wooden elements.





ONE STOP SOLUTION



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

Contact us for trial samples today.

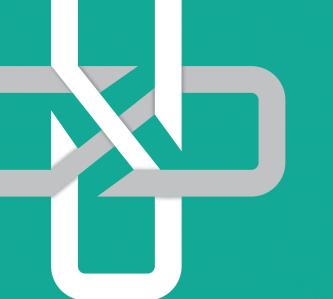
Download our APP for direct access to our veneer stock.



+91-91364 60666 | info@naturalveneers.com | www.naturalveneers.com



Scan me



SHREEPAL

Premium Quality Cutting Tools From Germany

Chip removal behind!

The knife

- AKE Toolings gives an Extra Cutting Millage.
- Extreme cutting Power
- Brilliant surfaces
- Cuts simply "everything"
- Absolutely smooth running
- Pure perfection
- Stunningly beautiful

RANGE INCLUDES:

PCD (DIAMOND) SAW BLADES, ROUTER BITS, DRILL BITS, DIAMOND PREMILLING CUTTERS, KNIVES, INSERTS, COLLETS, ETC.

CREATING MORE FROM WOOD.

- Eurodekor Melamine Faced Boards
- Laminates
- Edging
- PerfectSense Lacquered Boards
- Worktops M Splashback Panels
- Compact Laminates
- Eurolight Lightweight Boards
- Laminate Bonded Boards
- OSB Combiline





SOFTWARE SOLUTION FOR WOODWORKING INDUSTRY

Digital Design and Machining Chain for Wood Industry

- Useful functions for the wood industry
- Can be used not only for wood but also Metal ,Composite and Plastic Material.
- Unlimited 3D modeling.
- Powerful customization at every stage.
- High flexibility to optimize your work.
- Essential tools for collaborative working.
- An open solution with numerous interfaces.
- Precise and rapid draftings.
- Integrated realistic rendering.
- Simulation of Machining for Greater Security .
- A 2D ½ 3D 4&5 axis customized machining solution
- Simulation of machining for greater security

















gives you the best products and service



Hall No. 11 Stall No. R812

Spray System from Germany to Enhance Edge Finish Quality

- 100% Made in Germany
- It's a Green Product.
- Electronically controlled Spray Units, directly installed on EDGE BANDING MACHINE
- Removes Glue Residue from Panel Edges & Surfaces.
- Prevents Chips from sticking to Tracer Rollers & Work Surfaces
- Polishes Panel Edges to make it Smooth & Glossy.
- Cost effective way of getting perfect edges.
- It will not wipe up artificial grains on PVC and ABS Material edges.





SOFT SHELL, HARD CORE. RENOLIT PET laminate for soft, resistant surfaces.

- Surface stability
- Easy to shape
- Anti-fingerprint
- Scratch-resistant
- No "stop" feeling
- Easy to clean

Material Handling and More

Modular Furniture Material Handling and Storage Experience

- Space Management
- Most efficient utilization of floor space
- Avoid Damages of Panels.
- Its Helping to Increase
 Productivity.





Shreepal Green Futures Pvt. Ltd., 1102, Oriana Business Park ,11 th Floor,Opp CGST Bhavan , Near Lodha Gradenza ,Road Number 22, Wagale Estate, Thane West PIN -400604, Maharashtra, INDIA. Tel: +91 7208016114 / 5 E mail: info@shreepal.in

Shreepal Green Futures Pvt. Ltd., #460A/460 A1, KIADB, near NTTF circle, Beside Indian Oil Petrol Bunk, Peenya Stage IV, Peenya, Bengaluru - 560058, Karnataka, INDIA. Tel: +91 80 43715154 / 55

Shreepal Green Futures Pvt. Ltd., # B - 25, HSIIDC, Sector - 31, Faridabad - 121003, Haryana - INDIA. Tel.: +91 80762 29237

Blum trends with handle-less fronts



Austrian fittings manufacturer Blum offers a wide range of hinges, pull-out and lift systems that come in various models to give the right fitting for almost every application. The solutions can be combined with different motion technologies – for example with a mechanical or electric support system (depending on the degree of convenience desired) so that handle-less fronts open at a single touch with

Blum's tried and tested soft-close Blumotion.

Blum's innovative furniture fittings enable customisation of lift systems, doors and pull-outs to meet specific needs, enhancing user convenience in all three applications: in kitchens and throughout the home. Its motion technologies make it simple to develop handle-less applications.

Handle-less furniture is a popular trend that adds a touch of luxury and comfort to designs. Most handle-less furniture opens with a simple push and closes with the lightest touch and no force.

In addition, handle-less furniture results in cleaner drawer fronts, giving it a more modern and appealing appearance. Four motion technologies for lift systems, doors and pull-outs open up infinite possibilities for handle-less furniture.

The furniture can be combined with Tip-On mechanical opening support system. Tip-On Blumotion combines the mechanical opening support system with tried and tested soft-close Blumotion, Servo-Drive, and electric motion support system.

This opens up an endless array of design possibilities for handle-less furniture. Ergonomics and convenience are all enhanced by motion technologies.

Boilo gives new dimension to safety

Action Tesa, the largest MDF manufacturer in India, has introduced Boilo, a boiling water-proof high density fiberboard, and claims it is the first company to introduce this sort of product globally.

The fire-retardant board is produced using cutting-edge technology and an inventive process. It has low-flammability





TopSolid'Wood, realize all your projects from pre-study to manufacturing



TopSolid INTEGRATED DIGITAL FACTORY

topsolid.com 🖸 🕻 ն

contact@designcell.org

features thanks to its nanoengineered particles that lower the likelihood of fire mishaps.

Following in the footsteps of HDHMR board's popularity, Action Tesa Boilo boiling water-proof (BWP) with fire-resistant grade HDF boards is witnessing growing popularity among architects, builders, interior designers and home owners.

Boilo boards are available in plain and pre-laminated versions. These panels are ideal to create modular kitchens, closets for a wide range of lifestyles, home and workplace furnishings.

Apart from being water-resistant and

having an innate quality of resisting the adverse effects of hot water, the product is also termite-proof and has a wide array of applications.

These boards find use in furniture, restroom cubicles, flooring of a bus, or even damp areas such as washrooms. They are among the best available engineered boards in the market.

Grabos make manual lifting easy

EuroTech Vertriebs GmbH, the company that develops and produces customer-specific vacuum systems and components for automated handling tasks, has introduced its latest hand-lifting products: the eT-Grabo-NemoPro and the eT-Grabo-Otto, for exclusively smooth surfaces.

Both devices score with high ergonomics and are easy and reliable to operate. Bulky loads can be handled better and are therefore easier on the back and joints.

The eT-Grabo-NemoPro has been designed especially for professional continuous use. It has a narrower and more ergonomic handle bar, a digital (instead of analogue) pressure display, and automatic regulation of the suction air rate to maintain the vacuum.

The display of the eT-Grabo-NemoPro shows in PSI (pounds per square inch) or bar shows how strong the vacuum is and what carrying capacity can be achieved with it. Its intelligent control system remembers the optimum adhesion force and automatically returns to it.

This increases safety and saves time and energy.

Depending on the surface and attachment point, the eT-Grabo-NemoPro holds up to 170 kg. It sticks to smooth, textured, porous and even damp surfaces made of glass, metal, wood, natural stone, concrete, plaster drywall, ceramics, vinyl and much more.

The versatile device comes in a practical transport bag with a seal, a battery and several adapters for different countries.

The eT-Grabo-Otto is lighter, smaller and handier than the eT-Grabo-NemoPro and holds up to 68 kg. In size and handling, it is reminiscent of the manual suction lifters used in the glass trade, but is more practical.

Its special orientation on smooth surfaces makes it the ideal tool for smart glaziers when it comes to easy and ergonomic lifting. Like the eT-Grabo-NemoPro, it also features an intelligent pressure loss sensor.

Furthermore, the eT-Grabo-Otto is distinguished by a battery compartment for standard AAA batteries – which are available universally.















C-164, Focal Point, Phase V, Dhandari Kalan, Ludhiana-141010 Punjab, INDIA

Phone : +91-9814220583, +91-9872662180 (Hardeep Singh) +91-0161-2670780 Email : hardeeps@chaletinternational.com, Website : www.chaletinternational.com

Precision turning from De-lux Udyog

De-lux Udyog is a manufacturer, exporter and supplier of gunmetal bushings, brass products, wood rod rounding machine, etc. Using the best and fully computerised technology, the company delivers precisely engineered components known for their durability and strength.



Rod rounding machine

This is a machine for the production of wooden bars/ sticks and is an automatic rounding machine suitable for mass production of straight rods of any wood type, as well as plastic materials, with diameters from 6-40mm and 6-65 mm (depending on machine model: WRSM-40 or WRSM-65).

It is mainly used to mill square rods into round shapes, and round raw material to finished round shape (such as in bamboo), where minimum length to be fed should be 350 mm (maximum no bar).

With ease of operation, different diameters of round rods can be obtained by changing the cutterset for each size where the cutting tools (blades) as well as the feeder rollers remains the same for each size.

It is equipped with two electric motors, one for shaping and

JAN - FEB | 2023

another for feeding. Larger diameter round rods can also be made as per requirement other than the standard options.

It achieves productivity of up to 10 metres per minute and can manufacture curtains rods, components for sport appliances such as stumps, walking sticks, rolling pins and musical instruments, tables, chairs, furniture, handrails, staircases and semi-finished products.



Center-less sander for round rods

This machine is equipped with an abrasive belt that is suitable for sanding and finishing operations on straight parts with diameters of 4-100 mm having round section made of wood and metal.

The item rotates during working process and the machine is equipped with an automatic feed system, where the feeding speed can be varied by tilting the control wheel. It can also be equipped with a special attachment for feeding smaller diameter rods in a guided way.

Different diameters of round rods can be sanded by simply adjusting the control wheel without changing any parts. The abrasive belt can be replaced quickly by a single lever.

An additional purpose sanding area is provided at the rear for sanding any flat face or manual tasks of chamfering, as well as sanding at various angles by tilting the base plate at different degrees.

The abrasive belt size is 2000x150 mm and standard minimum length of job to be feed is 200 mm. It is equipped with two electric motors, one (1.5 kW) for abrasive belt and another (0.18 kW) for



Turning/cutting machine

This is a turning machine suitable for mass production of components of any wood type as well as ferrous and nonferrous metals, with diameters from 8-25 mm, 42mm and 60mm (depending on machine model: A-25, A-42, A-60).

Turning, drilling, chamfering, grooving and parting operations can be done easily, where the round, square or customised profile rod can be held quickly in the collet for each size and profile. Long rods as well as single pieces can be used for components' production.

The designs are done by form tooling so the maximum length of job can be 100mm with extra attachment required for smaller diameter components; profile tooling is provided by the company as per customer's requirements.

This machine is equipped with one electric motor and, if required, CNC automatic machine can be provided. All the collets used for gripping rods are as per Traub machine standards.



WOODNEWS



Cupboard Lock

Stylish and Secure

Available Sizes (mm) : 22, 25, 30, 35

Features:

- More than 5000 key combinations
- > 11 Pin Dimple Key Security
- Brass Keys

From the house of





Etna Hardware (OPC) Pvt. Ltd., 6-9-85/21/2,3,4, Ranga Reddy, Opp. Pillar No. 285, Rajendra Nagar, Shivrampally, Hyderabad, Telangana - 500052, INDIA | Ph: 99660 85125 | Mail: info@etnahardware.com

PRODUCTS & PROCESSES

Optimus machines give you an unbeatable edge

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. Its machines are specifically produced to suit Indian working conditions that ensure performance and operating comfort.

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.



OptiCut 2.8 (auto)

This a high-speed beam saw equipped with optimization software, label printer and an air floating table.

Salient Features

- Robust, balanced structure ensuring maximum stability. Specially designed technologies to guarantee precision & rigidity.
- Constant high performance in continuous industrial production.
- Easy accessible, user-friendly Smart-Touch HD Screen with cutting optimized software programed, that is simple to use & gives precision operation with maximum productivity & reduced wastage of material.
- Steel ball air floating table, helps avoiding scratches on board and assuring smooth board movement.
- Side aligner, integrated with the saw carriage, can perfectly align to the given thin or flexible panel, reducing cycle cutting time.
- Saw carriage speed can be adjusted from 0-100 m/min maximum cutting thickness up to 100 mm.
- All electronic & pneumatic parts are from well-known international brands.

Ensures longer machine life, safe operation, reduced unscheduled downtime and more economical operation costs. Low maintenance machine, easily available and costeffective spares backed by best service support.



Heavy-duty Pneumatic Suspension Grippers ensures scratche free board surface. It can grip the panel perfectly, highly reduce labor intensity, and greatly improve production efficiency



Clamping and Feeding

Feeding gripper pulls the board into the specified position in the machine.



Automatic side aligning

Side aligner integrated with the saw carriage, can perfectly align the board from the side tightly to ensure precise cutting, reducing cycle cutting time.

146



FUSION OF ART & EUROPEAN TECHNOLOGY

Acrylic panels available on Substrate polymer-coated

MDF / Plywood / HDHMR / Birch

Surajwood is the first-in-India brand to introduce acrylic panels manufactured through Modern European machinery to offer a finish that is difficult to find. These acrylic sheets are pasted with superior adhesives from Germany & undergo a rigorous testing process.

U Κ Α

CRYLIC DOORS AND PANELS



Haryana Manufacturing Unit

European

Lahs

9 45 Km Stone, Rhotak Road, Rohad Bahadurgarh, Haryana 124501 (a) +91 12/62278065

100 % European

Acrylic Surfaces

mayank@surajwood.com

Mumbai

L20, Globe Complex, Qwali Village, Dapoda,

100 % European

Acrylic Surfaces

- Bhiwandi, Thane 421302 +91 9321131630 8
- sale@surajwood.com; nakul@surajwood.com

Bengaluru

- No. 41, Nisarga, Huskur Road, Makali, Off Tumkur Road, Dasanpura Hobli, Bangalore Nort, Banglore-562123 +91-9900099444; Telex : +91-80-23718987
 - **a** dhruv@surajwood.com

Resistant



+91-9999995553; Telex: +91-11-450334151 sales@surajwood.com

Friendly



www.surajwood.com

FOLLOW US ON 🖪 回 🛄



Powerful, precise & efficient panel cutting



OptiEdge 5.5 P

This is a high-speed, Auto Edge Bander that is a high performance machine with feeding speeds of up to 18 m/min, which ensures more production.

Salient Features

- Pre-Milling unit with diamond milling cutter for chip free glue joints.
- Easy accessible, user friendly Smart Touch PLC control panel. The Corner rounding unit is controlled from the control panel, with the option of choosing the shape of panel.
- Motorized up-down movement of pressure beam for easy thickness setting.
- High frequency motors sliding on heavy prismatic guide ways for perfect finishing with trouble-free performance.
- Automatic lubrication system circulates lubrication to the required parts of the machine, ensures efficient operation and



increase life of parts.

- Glue spreading roller provides precise
 & consistent glue application. Perfect
 adhesion to the applied edge with
 heavy-duty pressure rollers.
- Safety air tank provision for nondropping of air during process.
- Robust feed chain & conveyor system with heavy duty gearbox for effective pressure on panels.
- All electronic & pneumatic parts are from well-known international brands.
- Low maintenance machine, easy available cost effective spares, best after sales service support.



Pre - Milling

An optimal unit for panel edge pre-milling with two heavy-duty, high-frequency motors supplied with set of diamond cutters, as standard supply with machine.

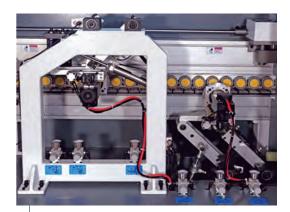
148



Gluing, Banding & Edge Cutting

Glue spreading roller provides precise & consistent glue application. Perfect adhesion to the applied edge with heavy-duty pressure rollers.

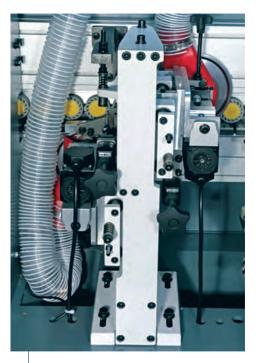
Heavy-duty knife with pneumatic pressure cuts the edge banding materials smoothly up to 50 mm height & 3 mm thickness.



Motor Round Cornering

Two compact and powerful high-frequency motors for the round cornering unit guarantees perfect finish on edge, sliding on two heavyprismatic guideways with recirculation ball bearings. Trimmer 2R cutter for PVC/ABS gives perfect rounding on edges of straight, chamfered & post-formed panel.





Fine Trimming

Two compact and powerful high-frequency motors guarantees perfect finish on edge.

High level finishing thanks to the sturdy, heavy-duty structure that is free of any vibration.

Trimmer 2R cutter trims the perfect finishing on straight edge of panel.



Edge Scraping

Gives the best finishing touch to the PVC/ABS edges, leaving no trimming marks on the panel. Unit complete with rotating copiers.

End Cutting

Two compact and powerful high-frequency motors guarantees perfect finish on edge, sliding on two prismatic heavy guide ways with recirculation ball bearings.

Customised shelving from Hettich

Hettich Cube-Plus shelving system is a new one-stop solution which is both versatile in functionality and aesthetics, and allows you to create customised statement furniture with a contemporary upgrade.

It is an advanced shelving system that enables one to create infinite design possibilities for different spaces. When installed on a wall, it does not look any less than a modern piece of art.

Cube-Plus is flexible, modern and ready to assemble. It offers unmatched design versatility, a discreet integration into already existing furniture elements in any space, adding a simple and efficient design dialogue.

It is rust-free ensuring the same artistic look for long. Whether long or short, wide or narrow, open or closed, on the wall or on the floor, almost every piece of furniture will be feasible and ready to assemble.

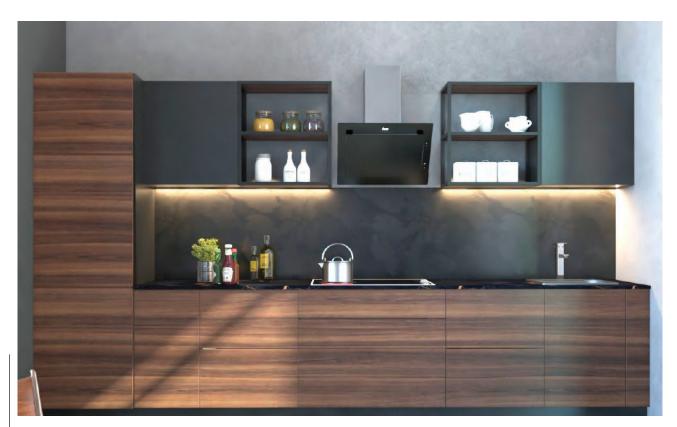
The shelving system finds utility in every living space:

- Living room: Showcase for collectibles, crafts, study tables
- Kitchens: dish organiser, store for spice bottles
- Bedroom: Book shelf, night lamp stand, combination shelf with dressing table to store cosmetics

 Restroom: organise and store bathing accessories, detergents and toilet accessories.

It is available is six different modules to suit the needs for different spaces and individual tastes. For details visit: www. hettich.com.







AXCENT AIR FLOW TECHNOLOGIES

MANUFACTURERS OF AIR POLLUTION CONTROL AND AIR HANDLING EQUIPMENT

PORTABLE DUST COLLECTORS



Nanxing showcases its star attractions



Nanxing Machinery has an integrated R&D, design, production, sales, service and total solutions for woodworking machinery. The company produces some of the world's best CNC and robot machines for the woodworking machinery industry.

The NCB612DT is a CNC 6-sided drilling machine that integrates drilling, grooving, simple routing and Lamello processing. It provides an ideal solution for invisible hardware or Lamello users.

Features

 4-slot line tool changer in ISO30 connector for fast tool changing;

- Max rotating speed of top 5.5-kW spindle up to 18,000 rpm;
- Optimised drill layout to finish the drilling faster;
- Minimum distance for vertical symmetrical drilling is 160 mm;
- Syntech control system and operation system, more reliable electricity components;
- Industry-level computer for high performance and stability;
- Multiple formats accepted (MPR, DXF, BAN, BPP, PDX, XML, XXL);
- Syntech control system and operation system;
- Nanxing high quality self-processed parts by laser cutting, robotic welding, sand-blasting, advanced 5-axes CNC

processing.

The NB7PCGM-PC is an edge banding machine with V-belt and double gluing units. It has a powerful PC control backed with intelligent and user-friendly software.

The machine adjustment can be done by just scanning the QR code using a bar code reader, making it easy and efficient. It is equipped with two pre-melt gluing units and has to option to switch from one of the two glue colours to match the edge tape, optional to choose PUR.

Processing data, production capacity and maintenance time could be obtained through ModBus/ TCP internet by production management software. The machine is equipped with eight tapes changing system, two sets of gluing units and auto tool adjustment device.

It is possible to activate it by scanning work piece label without extra machine set up work, and all adjustment work could be done automatically. This is a high-efficiency and intelligent edge banding machine to be used in single machine production or within line.

Bengaluru-based Nanxing Woodworking Machinery India is the authorised sales partner for India.







Simply Applying Most Efficient Solutions

BOND • PROTECT • BEAUTIFY

sames Skremlin

Expert in **paint** application

sames Gintec

Expert in high viscosity dispensing



Sames Private Limited (Formerly Sames Kremlin Pvt. Ltd.)

Registered Office : Gat no 634, Kothari House, Opp. Wagheshwar Palace, Pune - Nagar Road, Wagholi, Pune - 412207 +91 (020) 3047 2700/01 | info.in@sames.com | www.sames.com | EXEL Industries company



Ruei beam saws bridge quality divide

Beam saws are one of the most effective methods of precise panel cutting and are used to cut are typically used to construct everything from the frameworks of buildings to kitchen cabinets.

The automatic beam saws from Ruei Industries have a large blade used to cut different sized logs into beams. Often using circular blades which are available in a variety of different styles, beam saws are useful for a range of different jobs.

They are the most effective method of precise panel cutting with modern software that allows the saw to gain maximum yields from the materials. With intelligent handling and precision cutting, these machines make effortless work of large volume panel sizing.

International Contraction of the International Contractional Contractionactional Contractional Contractional

A moving carriage saw and a powerful pressure beam hold the material in place. There is a rear fence which holds and moves the material to the position which is controlled by computers. This allows both physical and technical aspects to work together to produce great products and lasting results.

The saw carriage of the beam saw produces high feed rates with large horsepower motors. This allows a scoring saw which is incorporated into the design to cut laminated and veneered materials.

Ruei Industries is a leading manufacturer and exporter of a wide range of edge banding machines, multiple boring machines, hot and cold presses, and membrane presses. Its woodworking machines are of high quality backed by the assurance for quality, guarantee and reliable after-sales service.

Technical specifications

Max. Cutting Length	3350 Mm
Max. Cutting Thickness	90 Mm
Main Saw Blade Diameter	400 Mm
Main Saw Blade Inner Diameter	30 Mm
Main Saw Rotating Speed	4800 Rpm
Scoring Saw Blade Diameter	180 Mm
Scoring Saw Blade Inner Diameter	30 Mm
Scoring Saw Blade Rotating Speed	6500 Rpm
Saw Carriage Forward Speed Adjustable	e 1-60 M / Min
Saw Carriage Backward Speed	100 M / Min
Main Saw Motor	13 Kw
Saw Carriage Driving Motor	1.5 Kw
Automatic Feeding Speed (Ac Servo Motor)	1.5 Kw
Total Power	20.2 Kw
Automatic Feeding Speed	42m / Min
Air Pressure	5-7 Kg / Cm2
Weight	6200 Kg
Dimensions 5830x6630x1750 Mm	



A Pioneer in the Art of Manufacturing Doors with Over 50 Years of Excellence



We Specialise in

- >> Fire Rated Doors
- >> Wooden Flush Doors
- >> Door Frames
- >> Plywood
- >> Complete Door Solutions



- +91 98205 92160 | 98200 70258
- Plot No. 96, Road No. 16, MIDC, Andheri (E), Mumbai - 400 093.



Modular kitchens

S





anisha@anishadoors.com

www WWW

www.anishadoors.com

Routing to timber construction, SCM makes woodworking easy



SCM, the leading Italian woodworking solutions provider, boasted the largest range in the industry that was exhibited at Xylexpo 2022 for every kind of production need.

Making its debut at Xylexpo was the Startech CN-K compact 3-axes machining centre, ideal for any kind of routing, decorations, scoring, creation of signs and 3D model prototype.

The only one in its category to have a 2.4-kW electro-spindle, the machine and its integral cabin guarantees protection to the operator and a clean working environment. It is also very easy to program, thanks to the virtual "open" human-machine interface for the importing of G-code from any kind of CAD/CAM software.

Also being highlighted were the new Eye-S compact touch controls on edge banders and the exclusive "blade off" technological solution (XIA winner) applied to circular saws and fitted with exclusive smart sensors to machine in complete safety.

SCM had also expanded its solutions for the timber construction industry. The new Area-X 5-axes CNC machining centre with mobile gantry structure is designed for manufacturers of CLT panels and curved laminate beams.

Excellent reliability and very high

The new Morbidelli CX220 drilling cell from SCM.

machining quality allow non-productive times to be eradicated and produce finished parts ready to be assembled on site.

Also on show was the new 3.0 version of the Maestro Beam&Wall proprietary software designed to provide a better response to the demands for workflow optimisation and greater production flexibility in machining structural parts.

For CLT wall panel sanding comes a new project, the DMC system Xl. It is a highly modular sanding-calibrating machine capable of working walls up to 3,700 mm wide and 500 mm thick.



Sorting out this mess takes **10-15%** of your time everyday, **SAVE TIME** with

Stay Organized Stay Ahead



www.kesseboehmer.co.in

spaceflex>





The Celaschi line for flooring (L) and Excimatt panels (R).

For visitors at Xylexpo, a closer look at the latest Celaschi products was possible for the production of both traditional and gradient board (chevron) wooden floors.

The new Celaschi TMC transversal tenoner with automatic loading system is versatile and precise, offering the utmost in terms of technical solutions for line profiling of boards with different gradients.

The Celaschi innovations also referred to the creation of Threespine click panels and the production of drawers, with the option of machining pieces of less than 60 mm in width.

The new Olimpic 500 edge bander offers excellent machining versatility in a limited amount of space and always with high quality standards. It has a two-motors rounding unit and a new control system for even more efficient production.

Some of the other advantages include the option to machine two real radii with all the units, panels up to 60 mm in width, perform a simple and automatic glue change with the SGP-E pot, and an even more user-friendly usage with HMI Maestro ActiveEdge software and the new 15-inch Eye-S console.

The Stefani SBX also took centre stage live from the SCM

Technology Center in Thiene. The new squaring-edge-banding machine offers the most advanced SCM technological innovations for this sector: these include Servo electronic units and other solutions for high productivity levels and excellent performance with every machining.

The integrated offer of DMC technologies for sanding, Sergiani 3D form for ennobling three-dimensional panels and Superfici for finishing has been further enhanced with new devices and models to satisfy all process and end-product type requirements and achieve sophisticated finishing solutions.

The DMC System T2, a flexible and modular numeric control calibrating and sanding centre appears in a completely new light. The innovative laser unit, making its global début at Xylexpo, is particularly well-suited for the wooden floor super finish, solid wood parts and MDF panels decorating and fibre cement finishes.

Also on display was a UV-LED polymerisation system with several UV mono-chromatic sources of different wavelengths to achieve a controlled multi-chromatic emission in a wider spectrum compared to the pure UV-LED radiation.

The result is chemical-physical performances fully comparable with standard UV polymerisation, while maintaining the typical advantages offered by LED.

The new Area-X 5-axes CNC machining centre with mobile gantry structure is designed for manufacturers of CLT panels and curved laminate beams.







The Windorflex machining cell worktable (L) and the Thundercut App (R) for SCM joinery machines.

For extra-opaque effects on the finish of the most varied end products and materials, another new entry was the Superfici Excimatt with Excimer technology, offering surprisingly smooth effects with high levels of opacity but with no more compromising on surface resistance.

For the first time ever at Xylexpo the Accord 600 CNC machining centre was on display. It is used in the production of doors, staircases and windows in solid wood. It offers 30% more productivity compared to market standards and an intelligent management with Maestro power TMS, the software that simplifies and optimises tool handling in the machine's magazines.

The spotlight also shone on Windorflex, the new automatic cell for machining complete fixtures productivity designed to optimise while simultaneously maintaining a high level of flexibility and machining quality, irrespective of the kind of window or door.

The solutions for solid wood were rounded off the Balestrini Idea CNC machining centre for chairs and tables, and the automatic Balestrini Pico MD tenonermortiser, ideal for creating miter door joints.



Fire Retardant Ply

 Block Boards
 Flush Doors

Commercial Ply • Marine Ply • Shuttering Ply • Checkered Ply • Flexi Ply



R П PLY FOREV S ш m

Toll free no 1800 4252 130 | www.everestply.com

Classy decking from SquareFoot



SquareFoot is a one-stop destination that offers a large decking range including Ipe natural wood decking, Java teak decking, composite decking and also the technologically advanced co-extrusion decking which offers elegant, resilient, and low-maintenance products.

The co-extrusion deck is the ultimate in durability and one of the toughest co-extruded composite decking ranges available. Its resilient protective cap made of advanced polymer resists scratches, fade, mould and mildew, and is exceptionally low-maintenance, with only the most

basic of cleaning required for optimal longevity.

The deck also offers decay and weather resistance with top protection from biodegradation, insects and harsh weather. Its streaked colour variation provides a natural look that embodies the essence of timber.

It is stain- and slip-resistant and an environment-friendly alternative to timber. The elegance and inimitable warmth of natural wood is combined with the convenience and durability guaranteed by their exclusive technology.

The SquareFoot outdoor flooring is made up of a combination of bamboo fibre, high-density polyethylene and chemical additives, making them recyclable and eco-friendly.

The product is available in two varieties – tile deck and long deck; in a wide range of sizes and patterns. The outdoor floorings are designed ergonomically to create a non-slippery surface with a good grip for wet areas like pool sides, gardens and parks and can also be installed as a composite deck flooring at a beach.

It can also be installed over existing surfaces. The designed tiles can be removed and stored in winter. The deck floor tiles are low maintenance and can be used without damaging rental properties (www.squarefoot.co.in).



www.aadhunikpune.com

Panel Processing, Surface Finishing, Flat Lamination, Profile Wrapping, Door Machinery, UV Excimer, Glass Coating & Clean Rooms

Flat Lamination Line

Laminating high gloss PVC, Acrylic, PP Laminating melamine boards with PET Transparent films Combination machine for foil and sheets Laminating of Veneer. Machine for laminating SPC



Profile Wrapping Machine - Wood / WPC / UPVC / Aluminium



Profile wrapping machine for Door Frames Veneer wrapping UPVC Profile WPC Profile Aluminium Profile

UV Coating Line - Roller Coater

The Machine is Designed for all kind of Primer, Paint & UV varnish application on Wood, Glass and PVC Pannal





Please visit @ Delhi Wood - Stall No. (V) 3012, Hall No. 12, Dates : 2 March to 5 March 2023

Unicol's quality water based adhesives



3D membrane and vacuum presses are used to manufacture front panels for kitchens and cabinets, which are an alternative to real wood or painted doors. 3D pressing is a manufacturing process that uses heat and pressure to bond decorative materials to MDF panels or other substrates.

The result is a door panel that is produced much faster than a lacquered solid wood or painted door, with a vinyl covering that is durable and easy to clean.

As this type of production has become more popular over the years, foils are now extremely authentic with realistic wood effects and matt and high gloss finishes emulating a typical painted product.

These foils have in turn put more demand on the membrane press adhesive industry to create the perfect finish. Type of plastic foils include PVC, PP and ABS.

Unicol adhesives are a crucial component in this process: there are two types of adhesives, one-component and twocomponent PUR water dispersion. To improve the heat resistance of these adhesives it is necessary to use an isocyanate hardener in either encapsulated form for single component grades, or separately for two component products.

The PUR dispersion is applied to the

3D membranes bond better with their substrates with Unicol adhesives.

moulded MDF either with a manual gun or automated spray nozzles. Once dried, the panel is then covered with a PVC foil and placed in a membrane or vacuum press.

The pressure and heat in the press reactivate the adhesive and allow the film to shape itself on the moulded MDF.

Membrane press adhesives are very successful in bonding synthetic materials and natural materials, are water-resistant, dry quickly on the applied surface, and are resistant to high temperature (90°C).

Total Tools & Equipment is the exclusive distribution partner of Unicol Adhesive Technologies in India.



RUEI INDUSTRIES PVT. LTD.

MANUFACTURERS OF WOODWORKING MACHINES

RI 450Z



FULL-AUTOMATIC EDGE BANDING MACHINE (Pre Milling & Corner Rounding Function)

RI 2121B



TRIBLE HEAD MULTIPLE BORING MACHINE WITH (DRO)



SLIDING TABLE SAW TILTING SAW BLADE 45°



NESTING CNC ROUTER

RI 909



EDGE BANDING MACHINE

Coimbatore	: No.6B, Sennamanaickan Palayam Road, Opp. Adithya International School, Idigarai, Coimbatore - 641 022. Tamil Nadu, INDIA.
Coimbatore Branch Office	: Sf No-144/5, Rukkumaniayammal Complex, Thekkupalayam, Mettupalayam Road, Coimbatore Gudalur, Coimbatore 641020
Bangalore Branch Office	: Second Floor, No 1 , Old Site No 15, Sri Hari Nivasa, 6th Cross Road, Behind VMR Convention Hall, Iti Lay Out, Nayandahalli, Kengeri Hobli, Bengaluru (bangalore) Rural, 560039, Karnataka.
Kerala Branch Office	: No - 317, Crescent Ville, Monastry Lane, Aluva , Kerala 683101

Phone : 0422 - 2461555, Cell : 093632 05424, 93454 52282, 96773 77306 | Website : www.rueiindustries.com | Email : info@rueiindustries.com

High-performance edge bander from Woodtech

The Rapidedge-706 through-feed edge bander is a fully automatic machine with pre-milling, upgluing, servo control pressing and pneumatic end cutting. In addition it has servo control trimming, 1mm 2mm switch tracking, servo control scraping, and flat scraping and buffing.

Special features:

- Through feed edge bander "miniaturisation" equipment with complete function and excellent performance
- 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 and intelligent processing to meet customer needs

- Servo adjustment banding craft for different auto adjustment units, reducing testing time to improve banding effect
- Auto switch cutter tools: one-click change craft, intelligent efficiency
- Equipment circuit strictly designed according to CE (European Union) standard
- Dual station auto switch of tracking units: Auto change according to the panel thickness, double-station edge bands can be alternative.

Additional features

- Pre-milling mechanism, large diameter diamond cutter, total power 20.73 kW, maximum pre-milling height of 60 mm; milling surface ripple and expansion material, edge bander effect is better. The milling surface size is ≥120mm
- Upper gluing system: Rapidly melts glue within 15 minutes, can switch quickly light and dark color 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

 Use cotton polishing wheel to clean panel that was processed well, enables panel to be more smooth and cleaning.

Machine specifications				
Max speed	:	18 metres/minute		
Min panel (LxW)	:	120x95mm		
Panel thickness	:	10-60 mm		
Panel width	:	≥95mm		
Panel length	:	≥120mm		
Edge thickness	:	0.4-3mm		
Feeding speed	:	13-18 metres/minute		
Power	:	20.31kW		
Working pressure	e:	6 bar		
Voltage	:	420V.		



STRONG AND BEAUTIFUL SURFACES

Italian Wood Coatings

Whether you are a designer or a producer of interior furniture and fittings, floorings, outdoor facades, windows or doors, we have the right finish for you. At Sherwin-Williams we have a coating solution to meet virtually every need. As the leading provider of customized finishing solutions we can offer you the latest industry innovations at the highest quality to add value to your process and your everyday life. If you require a finishing solution, and you want the optimal one for your operations then look no further.

Sherwin-Williams Coatings India Pvt Limited | A-91,TTC Industrial Area | Khairne Navi Mumbai - 400702 | India Via del Fiffo 12 | IT-40065 Pianoro (BO) | Italy For contact: Sushil Kadam | Phone +91 96200 17917 india.customerservice@sherwin.com | wood.sherwin.eu in

SHERWIN-WILLIAMS.

SHERWIN-WILLIAMS

BALKRISHNA VITHALDAS DOSHI





Pioneer architect Balkrishna Doshi no more

Balkrishna Vithaldas Doshi, a pioneer of modernist architecture and an important contributor to the evolution of architectural discourse in India, passed away in his native Ahmedabad on 24 January this year, aged 95 years.

Having worked under stalwarts Le Corbusier and Louis Kahn, Doshi is credited with the noteworthy designs of the Indian Institutes of Management in Bengaluru and Udaipur, the National Institute of Fashion Technology in New Delhi, CEPT University in Ahmedabad and the Aranya low-cost housing development project in Indore, which fetched him the Aga Khan Award for architecture.

In 2018, he became the first Indian architect to receive the Pritzker Architecture Prize, and the Royal Institute of British Architects' Gold Medal in 2022.

An alumnus of the Sir J.J. School of Art and Architecture (1950), Doshi was the founding director of the School of Architecture, Ahmedabad (1962–72), founding director of the School of Planning (1972–79), founding dean of the Centre for Environmental Planning and Technology (CEPT), founding member of the Visual Arts Centre, Ahmedabad, and founding director of the Kanoria Centre for Arts, Ahmedabad.

Doshi was instrumental in establishing the internationally-known research institute, Vastu-Shilpa Foundation for Studies and Research in Environmental Design. He was noteworthy for his pioneering work on low-income housing, and for his designs that incorporated concepts of sustainability in innovative ways.

His name figures in the list of Padma Vibhushan awardees for 2023. The government of India had, in 2020 chosen to confer the Padma Bhushan, and in 1976 the Padma Shri on Doshi.



WOOD TAWAN Taiwan Int'l Woodworking Machinery Show

Apr. 20 · Apr. 23. 2023

Taipei Nangang Exhibition Center, Hall 1 (TaiNEX 1)



Online Exhibition Apr. 20 May. 4. 2023

www.woodtaiwan.com

Asia's Cutting-Edge Woodworking Event

Envision a GREENER Future

Greenply innovation: zero-emission products

Showing care and responsibility towards the environment and its stakeholders is one of the key brand ethos of Greenply, and the organisation has been regularly undertaking various initiatives for it, be it product innovation on zero emission (E-0) or programmes on health and wellbeing for its stakeholders. The E-O product innovation of Greenply is also largely directed towards health and wellbeing of the carpenters and contractors. As they spent most of the time with plywood during its application for interiors, the community is exposed to harmful emission gases from the material and are prone to various health hazards.

The E-O plywood provides safety to the community by reducing formaldehyde emission

to zero. The E-O innovation has reached over 1 million households, Greenply and continues to build the on awareness amongst its stakeholder through multiple touch points.

As an effort towards environment sustainability, Greenply has successfully acquired the Forest Management certification from the Forest Stewardship Council (FSC) for its plantations in Tizit, Nagaland.

Wood waste made into bio-ethanol

Researchers at the Indian Institute of Technology (IIT), Guwahati, and the University of Lisbon, Portugal, have studied the efficacy of a specific bacterial enzyme in breaking down woody bio matter into simple sugars that can be fermented efficiently to produce bioethanol, a promising renewable fuel that can replace petroleumbased fuel systems.

The research has been published in the *International Journal of Biological Macro-Molecules*, PTI reports.

There is interest in developing methods to extract bio-ethanol for fuel from agricultural and forestry residues and crops that are rich in carbohydrate polymers (ligno-cellulose), the plant dry matter that constitutes the woody part of plants. The lignocellulose extracted from plants is deconstructed by using the biological catalysts (enzymes) called cellulases, and subsequently fermented.

Dieffenbacher acquires Bertsch Energy

Dieffenbacher recently expanded its portfolio of solutions by acquiring the know-how and key assets of Bertsch Energy, based in Bludenz, Western Austria.

The newly formed Dieffenbacher Energy GmbH subsidiary accelerates the company's ability to support its customers while helping to shape Europe's rapidly evolving energy future. Dieffenbacher's increased portfolio will include fluidised bed combustion systems for solid fuels (e.g. biomass), gas and steam turbines for power and steam production, and industrial waste heat systems.



In addition, the acquisition further extends Dieffenbacher's long-time use of conventional grate firing in energy systems.

Why OEM Preffered Pegasus Edge Banding Tape ?



UV

FIRE

RESISTANCE

RETARDANT

DEALER'S ENQUIRY SOLICITED FOR PAN INDIA

Assurance for Same color in every Lot No white line Complaint

Based on Taiwan *** 1** Technology



Hall no .: 11 Booth no. S913

IMPACT

TERMITE

EGASUS

RESISTANT

RESISTANCE

INDIA'S PREMIUM QUALITY PVC EDGE BAND TAPE





Scan here!

DE 2Hi 2 - 5 March, 2023 India Expo Centre and Mart (IEML), Greater Noida

> RUSHAD RANA Bollywood Actor

Customer Care No : 08 042 781 520 Email : pegasusprofiles@live.in

www.edgeband.in | www.pvcedgebandtape.in

Follow By "Pegasus EdgeBanding" : (f) () (in ()

Fading prospects for Myanmar

As a result of the on-going international pressure and restrictions on trade in products from Myanmar, exports of timber been affected. The have cumulative result of the US Burma Act (recently revised), OFAC and FATF resolutions on financial transactions and action by the EU Parliament have had a striking impact, not only timber trade but also the entire business sector.

there are also internal factors which have slowed the timber trade. The Myanmar Timber Enterprise (MTE) is the sole and official supplier of logs to the sector, but MTE is facing difficulties to transport logs from the extraction sites to Yangon, where many processing mills are located because of the security threat from anti-government forces.

Changes to export regulations have also undermined exports of wood products. In August 2022 an order was issued revising the definition of type of wood products. It was decreed that sawn wood greater than a cross section area of more than 24 square inches shall be regarded as rough sawn and exports are prohibited.

As a result squared logs and veneer flitches cannot be exported and this has cut into export earnings. Annual export earnings from timber exports have fallen to around US\$10 million over the past 3 years according to data from the Ministry of Commerce.

In addition to external action,

Unilin, Surteco tie up for tech

transfer

Unilin Technologies, a know-how provider in the flooring, furniture and construction industry, has entered into a license agreement with Surteco, a leading full-service provider of decorative surfaces, to use roll-to-roll digital printing technologies from the large patent portfolio.

The agreement gives Surteco access to Unilin's expertise on digital printing that they have been researching and developing for more than 15 years by testing different inkjet technologies and chemistries around the world. Roll-to-roll digital printing enhances the design freedom and personalisation of the products, which enables make-toorder production and reduces inventory and waste. With the large colour gamut and increased sharpness, Surteco takes the next step to improve its efficiency, product quality and design opportunities.

Altendorf wins 'Best of Consulting Mittelstand'

The well-known German publisher, WirtschaftsWoche, recently awarded Altendorf Group's Concept AG with first position in the manufacturing and operations category of the 'Best of Consulting SME 2022' competition for the successful project.

Altendorf Group doubled the output at its Hebrock factory, thanks to a new production layout and the digitalisation of



store floor management. This concept was not only developed, but its implementation was also actively supported by Concept AG.

Production within the buildings was converted to line production and the factory halls were equipped to enable the machines to move continuously from station to station with a uniform cycle time, along with the store floor management being digitalised. This makes the process faster, transparent and efficient.



B S Engineering Machinery Pvt. Ltd.

B S Engineering Machinery Pvt. Ltd. (BS) is the ORIGINAL Plywood Machinery Manufacturer in India Since 1953. The company has constantly developed technology to produce Energy Efficient machineries to help Plywood Production much easier.

Veneer Drying is always a bottle neck in all Plywood Industry. BS has always worked towards producing High Capacity Veneer Dryers like Roller Veneer Dryers and Mesh/ Band Dryers.

Currently Clients wants Roller Veneer Dryer with Huge Drying capacity. In producing bigger/ Longer Veneer Dryers, the Dryer speed has increased. So the dryer's full Drying capacity cannot be achieved by Manual feeding of Veneers as it leaves gap between veneers. So BS has Developed Auto Veneer Feeding Systems to help achieve End-to-End Veneer Feeding in Roller Dryer. The company has successfully supplied and installed several Auto Veneer Feeder units.



Launching AUTO VENEER FEEDER for Roller Dryer



Please Beware of Duplicate Company claiming to be BS ENGINEERING

B S Engineering Machinery Pvt. Ltd.

40, Jessore Road, near Airport Gate No. 3, Dumdum, Kolkata - 700081 Mobile: +91-92305 66933 +91-90077 27948 Email: info@bsengg.com marketing@bsengg.com



Saib is part of Egger Group



The Egger Group has acquired 60% of the shares in Italian wood-based materials manufacturer, Saib, based in Caorso, near Piacenza. It has been one of the leading wood-based materials manufacturers in Italy for 60 years.

For the factory, with around 200 employees, the majority shareholding by Egger opens up further growth and synergies in this globally active group of companies. With this investment, Egger has confirmed its strategy of further growth in its home market of Europe.

Egger's investment in Saib is an ideal match and offers great development potential for both companies. Additionally, in the longterm EGGER will potentially further increase the participation. The parties have agreed not to disclose the purchase price or further details of the transaction.

Imos India gets pat from KDEM

Imos India was recently recognised and felicitated by the Karnataka Digital Economy Mission (KDEM) for encouraging the development of IT industry services in new technology hubs away from Bengaluru.

Imos India, an IT service for Indian modular furniture industry, recently relocated all operations and activities from Bengaluru to Hubli, and has become a part of KDEM's 'Beyond Bengaluru' initiative.

Their aim is to make North Karnataka a hub to generate skilled designers in IT sector of modular furniture industry.

KDEM is designed to function as the knowledge bridge between the Government of Karnataka and industry with a view to accelerating the growth and investments in the IT, BT and S&T sectors in the state.

KDEM envisions harnessing the unlimited potential of the digital economy of Karnataka by focusing on IT products and services. KDEM's 'Beyond Bengaluru' initiative is aimed at working towards the promotion of emerging technology clusters in tech clusters across the state.

Under this initiative Hubli-Dharwad-Belagavi had been identified as a technology cluster.



Blum India opens in Bengaluru

Blum, the premium Austrian furniture fittings manufacturer, launched its new distributor showroom, Vera Enterprises, in Bengaluru recently. The new Blum experience centre was inaugurated by Nadeem Patni, Managing Director, Blum India, and Saquib Malik, Director of Vera Enterprises. The showroom offers a range of Blum products and complete kitchen and wardrobe solutions. The idea is to give customers greater design scope and plenty of possibilities for differentiation.





Modular Kitchen Accessories & Cabinet Hardware





RAKSHAN HOME STYLES Bahadurgarh, Haryana (India) +91 9810135389, 7206209111
 info@peacockrevera.com
 www.peacockrevera.com

ALSO FOLLOW US ON

First woman CEO for MTC

The Malaysian Timber Council (MTC) appointed Ms Noraihan Abdul Rahman as its Chief Executive Officer effective 1st December, 2022. She replaces Mr Muhtar Suhaili.

Noraihan, who was MTC's first woman Chief Operations Officer, is now the Council's first woman CEO in its 30-year history. MTC said she would oversee the strategic direction and drive sustainable growth for the council.

MTC said Noraihan's promotion was celebrated as a step in the right direction for an industry that has few women in its top ranks.

re de nt

Acimall studies the trends of 2022

Based on the data collected by the studies office of Acimall, the Confindustria-member association that represents Italian industry companies, total production reached a value of ≤ 2.646 billion, up by 4.6% compared to the previous record in 2021.

The trend of export was substantially stable, amounting to ≤ 1.757 billion (+1% over 2021), with domestic market sales at ≤ 889 million, as much as 12.1% above the result of last year, marking a new record for these categories.

Import increased too (≤ 257 million, +5.3% over 2021), driving the trade balance to a positive result by ≤ 1.5 billion, with a 0.2% increase from 2021.

Apparent consumption in Italy amounted to €1.146 billion, up by 10.8% compared to last year.

The year 2022 experienced the aggravated effects of the Covid-19 pandemic, the Russian invasion of Ukraine, soaring energy prices, and the closure of many markets. These elements had a stronger impact in the final quarter of 2022, with results that negatively affected the end-of-year balance.

Siempelkamp completes Thin Board Challenge



In October 2022, a MDF thin-board line made by Siempelkamp operated by Borg Manufacturing accomplished the 'Thin Board Challenge'. The fourth Siempelkamp production line in total at Oberon, New South Wales, was handed over to the Australian wood-based panel producer.

In 1987 and 1995, the first two MDF plants at the Oberon location had been ordered from Siempelkamp. In 2017 the order chronology was supplemented by a plant for the production of particleboard.

The order for the currently accepted MDF thin board plant with a ContiRoll in the $8' \times 18.8$ -metre format had been placed by Borg Manufacturing to produce boards in a thickness range of 1-25 mm.



SANJAY WOODTECH PVT LTD was established in 2001 and specialized in wood working machines, consultant for wood working & Panel processing industries. We are importer of wood working machines from Italy, Taiwan & China. We have 33000Sqft. Area facility centre for machines, tools service, Training & Experience centre at Boranada Industrial Area, Jodhpur (Rajasthan) India. We having smart working and devoting technical staff for furniture making industry.



Sanjay Woodtech Pvt. Ltd.

Factory Add: G-588, EPIP, Boranada, Jodhpur(Raj.) India -342012Ph. no.- +91-9414039793, 9829212261, 80942 77779 E mail ID - sanjaywoodtech@gmail.com Website- www.sanjaywoodtech.com





RATANGARH

Leadermac Machinery celebrates 50th anniversary

Leadermac Machinery, the leading machinery company from Taiwan, recently celebrated its 50th anniversary with a get-together of distinguished guests from industry, government and academia.

Its 30-odd customers and subcontractors from across the globe joined the event. Leadermac is a world-class 4-side moulder manufacturer and sells its products to 62 countries, including India.

Leadermac made a breakthrough and displayed its new 4-side moulder whose speed has increased to 400 metres per minute (old speed 24 metres per minute). The new machine is equipped with cooling systems to prevent it from overheating because of high-speed feeding.

Michael Chang, CEO of Leadermac,



announced the company had won the 25th 'Rising Star Award' from the Ministry of Economic Affairs and the 21st 'Golden Hand Award' from the Taichung City Government. All the components Leadermac uses for its machines have the 'Green Power' logo.

Raute revamps organisational

structure

To better address the current operational and strategic development plans, Raute, a leading supplier of veneer, plywood and LVL (laminated veneer lumber) technology and machinery, will change its organisation structure.

The new structure will strengthen Finland-based Raute's ability to service customers and streamlines internal operations. The change will also be reflected in the Executive Board composition and responsibility areas.

As of 1 January 2023, Raute will have

three business units of Wood Processing, Analysers and Services, each with a clear focus and accountability for its respective business operations.

The Executive Board will consist of the CEO, three Executive Vice-Presidents, one for each business unit and three functional roles: Chief Commercial Officer, Chief People Officer, and Chief Financial Officer.

Canadian wood villa wins award

MAK Projects, a premier infrastructure and housing development company, was recently conferred the prestigious 'Sustainable Project of the Year in India' award as part of the National Awards for Leadership and Excellence.

The award was in recognition of the aesthetically designed and sustainable Canadian Wood villa, built by MAK Projects in partnership with Canadian Wood, at BTR Greens, Hyderabad.

MAK Projects and Canadian Wood partnered together to build the sustainable villa made with certified timber sourced from sustainably managed forests of British Columbia, in Canada.

The sustainable Canadian Wood villa is MAK's maiden sustainable venture. It is also the first of its kind in India and has led to a lot of interest and awareness in the government and public domain.





SANDEEP MACHINES PVT LTD B-1/976, RAJPURA ROAD, CIVIL LINES,LUDHIANA-141001 PB MOBILE: 9915589980 / 9814066888 E-MAIL : sales@sandeepmachines.com / sandeepjain4863@gmail.com WEBSITE : www.sandeepmachines.com

Dieffenbacher bags OSB order for China

Chinese wood-based panel producer, Beautiful Family Plate Making Co. Ltd. (BFP), has contracted German machine and plant manufacturer, Dieffenbacher for a complete fine OSB plant in Guangxi, China. Installation of BFP's new plant is scheduled for the second quarter of 2023. The first board is to be produced in fall 2023.

Dieffenbacher will supply everything, from chip flaking to raw board handling, dryer, screens, particle preparation and material recovery, glue preparation and dosing, gluing system, forming station and forming line, CPS+ continuous press system and electrics and plant automation.

The plant will be able to produce 500,000 m³ of Fine OSB per year.



Stanley launches Cabinetry Cult



Bengaluru-based Stanley Group, a manufacturer of premium furniture and home decor products, recently announced the launch of Cabinetry Cult, a revolutionary kitchen and cabinetry solution.

It is crafted using the perfect blend of German precision

manufacturing, French carpentry techniques, Italian design sensibilities, and craftsmanship with 26 years of manufacturing expertise.

The cabinets come in a variety of styles, colours, sizes, and floor plans offering customers a range of styles and layouts for their kitchen and cabinetry needs of the entire home.

The materials used in Cabinetry Cult cabinetry are globally sourced and of the highest quality which includes marine plywood, FSI-certified timbers, wood veneers, laminates, natural stones and finishes.

The Cabinetry Cult collection offers customers a complete solution to their cabinetry needs. Customers can design their cabinetry using a narrow/ eclectic palette and also choose from four finishes, ranging from metallic to solid lacquer, and 37 shades.

Rushil Decor to set up newlaminate plantRushil Decor manufactur
wide range of designs, cor

Interior products maker Rushil Decor will set up a new manufacturing facility for laminate sheet manufacturing in Gujarat, with an aggregate installed capacity of 12 lakh sheets per annum at the cost of approximate Rs.60 crore. It expects to cater to the Indian and overseas markets that has demand for bigger-sized (jumbo-size) laminates.

Rushil Decor manufactures decorative laminates with a wide range of designs, colours and finishes in three of its manufacturing plants located in Gujarat with a combined laminate capacity of 34.92 lakh sheets per annum. Currently, the company has five manufacturing facilities in India out of which three are in Gujarat and one each in Karnataka and Andhra Pradesh. The company is engaged in manufacturing laminated sheets, Medium Density Fiber (MDF) boards and PVC foam boards.



Best European Technology

GLADES TECHNOLOGIES

GLADES Technologies is a woodworking consultancy created by an experienced professional in the year 2011 with the assistance of Best European experts to redefine India and its Subcontinental Woodworking industries to a World Class level. Glades is a solution with futuristic vision to those who urged for a long time to believe on reliable experts for their company. Here, we are very much dedicated from our beginning to answer all your queries and stretch out our helping hand to change the total makeover of this industry with individual machines to fully automated production lines.

Solution with futuristic vision Fully-automated production lines



STORM2508

NCH 1325C



TWISTER 1705



For Live Demonstration on product, please contact: 08048959580

GLADES TECHNOLOGIES LLP 2nd Floor, 846/1 Mehrauli Gurgaon Road. Ghitorni. New Delhi – 110030. Mobile: +91 9331420222

www.gladestechnologies.com

IKEA publishes origin of its wood

IKEA has launched a map on its website that shows where the timber for its wooden products comes from. The world's biggest furniture brand – and one of its top wood consumers – used 20 million cubic metres of wood in the 12 months until August 2022.

Poland was the biggest supplier in that period, followed by Lithuania and Sweden. Since shunning Russia and Belarus as suppliers because of the war in Ukraine, sourcing from Sweden, the



Baltics, Poland and Germany has increased.

IKEA has also been buying and managing forests for future wood use, but doesn't yet include that activity in its overall business target to be climate-positive by 2030, Ulf Johansson, Global Wood Supply and Forestry Manager, told Reuters.

IKEA promises to be "extra vigilant" about illegal logging in Romania, after environmentalists accused the furniture giant of turning a blind eye. The 2017 French documentary, 'Wood Industry: A Business Against Nature', is airing on Netflix in several countries. It questions the sustainability of the company's wooden products.

Congo suspends log exports

The Republic of Congo has suspended log exports from January 2023. This decision is despite guidelines from the Council of Ministers of the Central African Economic Union (UEAC) which had decided to postpone, to an unspecified date, the entry into force of the log export ban. Wood product exports from Congo would be restricted to semi-finished or finished products.

While not adopting a log export ban it is reported that the government in Cameroon has significantly increased duties and export taxes on logs which prompted some operators to stop production in January 2023. Cameroon will continue to export logs.

Küpeliler Endüstri produces OSB ContiFinish

A "first board" in the truest sense of the word was produced by the Turkish wood-based panel producer, Küpeliler Endüstri AS, in December 2022. The first continuously produced OSB board with ContiRoll press technology in Turkey was pressed at its Kutahya site.

The new OSB line with a ContiRoll press in the 4'x 33.8-metre format, extendable to 48.7 metres, marks an absolute premiere in the Turkish market. It will be used at Küpeliler Endüstri AS in addition to the wood-based panel industry, for example, in the cement and packaging industries.

The continuous press technology optimises both thickness tolerances and mechanical properties compared to conventional cycle press lines. The OSB-ContiFinish also ensures excellent surface quality.

Bierfreund is new head of DIPA

Robert Bierfreund is taking over the chairmanship of the Digital Printing Association (DIPA) with immediate effect. DIPA brings together experts from all process steps of industrial surface design. Its network comprises of 23 members.

The cooperation network was founded during Ligna, the world's leading trade fair for the woodworking and wood processing industry. The aim of DIPA is to take a holistic view of the individual surface design process and to make the possibilities of industrial digital printing as an innovative process accessible to as many users as possible.

Robert Bierfreund started his career in the printing industry in 1991. For 17 years, he held various management positions throughout Europe at Bertelsmann Printing. Since 2011, the electrical engineer has been leading Interprint worldwide as its Managing Director.

DIPA also welcomed Egger (Austria), Finsa (Spain), Metis (Italy) and Heimann (Germany) as additional members that support DIPA with their expertise in the application of digital printing.





Ultralight AG and Kalaniddhi Engineers: 10+ years of strong and powerful cooperation in India

UV Lamps, UV Power Supplies, UV Led, Excimer Technology

Ultralight and Kalaniddhi Engineers

wishes you a successful Delhi Wood Exhibition

Ultralight AG

Mr Thomas Schmer, Head of Global Sales www.ultralight.li - mail@ultralight.li Phone: +423 373 5656 Kalaniddhi Engineers Mr Mukul S. Chauhan, CEO

kalaniddhi.engineers@hotmail.com Phone: +91 9871100799

MAINTENANCE CORNER

J-2500.in (Semi Auto) Curvilinear Edge Bander



Adequate maintenance is a crucial factor for longer life and to obtain optimal working condition of the machine (J-2500.in (Semi Auto) Curvilinear Edge Bander). All the maintenance operations must be done with the machine turned off and with personnel wearing protective gloves.

All cleaning operations are to be carried out by the machine operator or by skilled technician. General cleaning ensures long life of the machine and is an important safety factor.

Use a power dust aspirator to clean the machine:

• Tables and all cavities where there are dust and any shavings residues.

- Weekly carefully clean all moving parts in particular the elements exposed to the dust & to the resin by using a brush or cloth with safe solvent.
- Clean off any glue residues along the panel path, using a suitable nonhazardous detergent.

Check of safety devices

For safe usage of the machine, the safety devices should be efficient and in good working order.

Check the controls for emergency stops

Every 2 weeks carry out a test of the

machine under normal operating condition. Press the emergency button on the machine.

Note: if the chain gets slack, the braking time may increase. Therefore, make sure that the chains are tightening in good condition.

Periodically check that the guards are efficient.

Please stop processing and contact the local agent immediately if any trouble is indicated by the machine..

Machine removal & storage

Disconnect the machine from the

www.woodnews.in



7

GROW YOUR BUSINESS.

INDIA'S PREMIER AND WIDEST READ WOODWORKING MAGAZINE.

IN PRINT & DIGITAL

Scan the QR code to view Flip Magazine



Now follow us on:



For your print copy please send your details to subscribe@woodnews.in or call Chandru on 9986600036

MAINTENANCE CORNER

electrical and pneumatic system. After totally cleaned the machine, wipe antirust protection on it, and preventing the machine in environments.

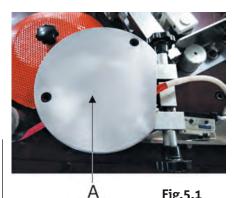
Cleaning & Checking Schedule

Scheduled maintenance is of the utmost importance to obtain the best performance as well as safe operation of the machine.

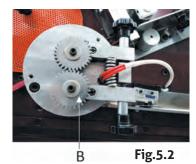
DESCRIPTION	INSPECTION	FREQUENCY	ACTION	
Machine general leaning	Visual	Daily	Use vacuum cleaner to remove dust	
Inside the electric panel	Visual	Daily	Use vacuum cleaner to remove dust	
Edging feed and pressure rollers	Visual	Daily	Remove any glue residues	
Sliding surface	Visual	Daily	Remove any glue residues	
Check all wires and electric connections near the power switch to see if there is any loose connection.	Visual	Daily & Monthly	Tighten properly	
Check id the chain running normally. If any break or failure, replace it.	Visual	Daily & Monthly	Tighten properly	
Check the load voltage and current of the motor	By meter	Daily	If not proper use services of a skilled electrician	
Check the continuity of all the wires	By meter	Weekly	If not proper use services of a skilled electrician	
Glue tank internal cleaning	Visual	Daily	Open the glue tank lid Clean with a wooden spatula Close again	
Glue roller	Visual and operating test	Daily	Check if the glue roller shaft rotates normally. If any faults are detected, contact dealer	
Compressed air regulator filter	Check of tank and filter	Weekly	Drain any condensation present in the tank	
Reel cutting shears knife	Visual and operating test	Weekly	If edging cut defects are detected, contact dealer	
Glue tank	Visual	Daily	Grease the gear unit	

Periodical Lubrication

Accurate lubrication ensures long life as well as optimal performance of the machine.



- Open the top cover A (fig. 5.1).
- Use high-temperature grease (200°c) at gear B (fig 5.2) after 12 hours of every operation.
- Grease the glue roller chain as shown in fig.5.2
- Grease the gears & universal joint as shown in fig.5.3
- Long life Synthetics oil used in the gear box, and requires no lubricant change



Chain Tightening

After the first working period or after many working hours the chain tends to get slack. Carry out the following procedure:

www.woodnews.in

WOODNEWS



Also available as Flip Magazine



Scan the QR code to view Flip Magazine

SMS FM WN to 9986600036

For your print copy please send your details to subscribe@woodnews.in or call/SMS Chandru on 9986600036

Now follow us on:



IWMMTA

INDIAN WOODWORKING MACHINERY MANUFACTURERS AND TRADERS ASSOCIATION

JOIN IWMMTA AND BENEFIT

PROMOTION OF YOUR PRODUCTS IN INDIA AND OVERSEAS THROUGH THE ASSOCIATION

GET EXPOSURE THROUGH VISIBILITY ON THE ASSOCIATION WEBSITE

PARTICIPATE IN ASSOCIATION ORGANISED SEMINARS, WEBINARS, CONFERENCES, ETC FOR WIDER REACH

RECEIVE TECHNOLOGICAL UPDATES INCLUDING OFFERS FOR CO-OPERATION / JOINT VENTURES WITH INTERNATIONAL COMPANIES

GET YOUR PERSONNEL TRAINED THROUGH ASSOCIATION SCHEMES

COLLECTIVE NEGOTIATION THROUGH THE ASSOCIATION BENEFITS MEMBERS

PARTICIPATE IN FAIRS AND EVENTS ABROAD ON A COMMON ASSOCIATION PLATFORM

NOMINAL JOINING AND ANNUAL SUBSCRIPTION CHARGES



Registered office: 1427/1, Hennur Main Raod, Kacharakanahalli, Bangalore – 560084.

Ph: +91-89519 32952 • Email: office@iwmmta.in



Fig.5.3

Stop the machine; turn OFF the main switch.

Open the rear cover ϑ check the tension of the spring A (fig. 5.4)

the entire idler sprocket chain assembly was tight due to spring tension. If the chain tension is not proper, adjust spring tension by setting screw B (fig. 5.4) or replace spring.

Finally close the rear cover.

It will increase the time required to stop the glue roller. So periodically check this part is necessary. The chain tension is right if, by applying a 3 kg force in the middle of the chain, you get flexion of approx.2 mm.



ΒA

Fig.5.4

TROUBLE SHOOTING

Problems	Trouble shooting
The motor does not run even after the SET temperature has been achieved.	Check the SET2 & the SET1 temperature on the temperature controller. There should be difference of 10 degrees between the two. If the difference is not 10 degrees, reduce the SET2 temperature by 10°.
	The value can be changed by using the upper & lower arrow keys. After setting, press the ENTER key and then start the motor.
No display indication seen on the counter meter & temperature control meter.	Check electrical connection given to the machine. Check for any drop of voltage or any loose connections of the control panel.
The temperature control meter indicates room temp and is not raising	 On the control panel, locate a setting / selector switch for heater temp just below the counter setter. Check if the heater switch is ON. Check the supply voltage to the heater. Check the continuity of heater.
Temp. Control meter indicates OPEN	Check the continuity of the thermocouple or replace it.
Pneumatic cutter not working properly in manual mode	The air pressure should not be below 5kg cm². Check roller limit switch and continuity of switch.
Pressure roller does not operate even after pressing the foot switch	Set the proxy switch gap against the counter gear mounted on the right side under the fixed table.
The chain is making noise	Ensure proper alignment and tightness of the chain and lubricate it with grease if dry.
The glue is not reaching and wetting the rollers	 Qty. of glue in the pot is less. Correct grade of glue not being used. Adjust the wiper if required.

COMPANIES IN THIS ISSUE

Company Name	Page Nos.	Page Nos.	Company
Machinery & Tooling			Aristo India
Aadhunik Woodworking		161	Aryamman
AKE Knebel GmbH	78		Blum India
Altendorf GmbH	170	27	Chalet Inte
Arnavi Machines	58	85	EBCO
Aranya Wood Works (Burkle)		115	Egger Grou
Axcent Airflow Technologies		151	Everest Ply
Barberan SA		29	Flexaflex H
Basco Tools Ltd		21	Giardina In
Biesse India	60	39	Greenply Ir
Bosch (FREUD)		15	Henkel Adł
B S Engineering		171	Hettich Ind
Caple Industrial Solutions		109,94-95	Hexagon In
Chopal Engineering		102-103	Hindware
Dieffenbacher GmbH	168,178		imos India
De-lux Udyog	144	105	The Indust
EMC Italia	58		Company
EuroTech Vertriebs GmbH	142		Kalaniddhi
Falcon Vaccum Pumps		133	Kessebohn
Falguni Enterprises		117-123	Kleiberit Ad
Felder Group	42	66-67	Küpeliler E
Glades Technologies llp		179	Mehta CAD
Guruamar Industry Ltd		129	Nimmi Har
Holytek		5	Ornare Lan
Homag India	96	33,89	Ozone Ove
Jai Industries	146,182	55,71	Plymarc Ply
Jovas Tech		79	Praveedh D
Kalyan Industries		57	Rakshan Ho
Kumar Engineering		86-87	Raute Corp
Leadermac Machinery	176		Richwood I
Leitz Tooling Systems	70	53	Rushil Deco
Mukund Machine Tools			Sames Pvt
Nanxing Woodworking Machinery	152	72-73	SENOSAN (
Nitshaw Technologies		17,41	Sherwin W
Perfect Tools (Gorsan Impex)		63	Shreepal G
Rasa Engineering		188	Sinox
Ruei Industries	154	163	Sirca Paints
Sandeep Machines		177	SleekBoard
Sanjay Woodtech		175	Suraj Wood
SCM Group	76,156	8-9	SquareFoot
Siempelkamp GmbH	174		TopSolidWe
Taitra Wood Taiwan		167	Total Tools
Technik		25	Turakhia Oʻ
Tong Fong/ Wen chih		127	Unicol Adh
Universal Tools Industries (Accutec)		125	Unipegasu
Venjakob Finishing Solutions Pvt. Ltd.		19	Wood-Mize
Vollmer Technologies India Pvt Ltd		93	Wood-Pulp
MichaelWeinig AG		81	
Woodmaster (India) Machines Pvt Ltd		59	Furniture N
Woodtech Consultants Pvt. Ltd.	82,164	36-37	IKEA Stemley Cry
WoodFinishing Consultants		188	Stanley Gro
Yow Cherng		167	Wiseart De
Materials, Supplies & Software			Industry Se
Action Tesa	140		Acimall
AdlerWUD India	140	77	American H
Anisha Arjun Hardasani doors and		77	Canadian V
designs		155	China Inter

Company Name	Page Nos.	Page Nos.		
Aristo India (K Bros)		4		
Aryammann Interiors		45		
Blum India	140,172			
Chalet International		143		
EBCO	172	6-7		
Egger Group	68	43		
Everest Ply		159		
Flexaflex Hoses		107		
Giardina India		IBC		
Greenply Industries	168			
Henkel Adhesive Technologies	90			
Hettich India	150	2		
Hexagon India		65		
Hindware		BC		
imos India	172			
The Industrial Process Solutions				
Company		111		
Kalaniddhi		181		
Kessebohmer GMBH		157		
Kleiberit Adhesives		23		
Küpeliler Endüstri AS	180			
Mehta CAD CAM		75		
Nimmi Hardware		145		
Ornare Laminates / Decora	74	13		
Ozone Overseas		46-49		
Plymarc Plywood		11		
Praveedh Décor		31		
Rakshan Homes / Peacock		173		
Raute Corporation	176			
Richwood Industries	74	69		
Rushil Decor	178			
Sames Pvt ltd		153		
SENOSAN Gmbh		61		
Sherwin Williams (Valspar Coatings)		165		
Shreepal Greens		138-139		
Sinox		131		
Sirca Paints		51		
SleekBoard (Sauerland Spanplatte)		101		
Suraj Woods		147		
SquareFoot	160			
TopSolidWood/ Designcell	80	141		
Total Tools & Equipment	162	91		
Turakhia Overseas(Natural Veneers)		137		
Unicol Adhesive Technologies	162			
Unipegasus Profiles	84	169		
Wood-Mizer	128	135		
Wood-Pulp		IBC		
Furniture Manufacturers				
IKEA	180			
Stanley Group	178			
Wiseart Design studio	44			
Industry Services	17/			
Acimall	174	75		
American Hardwood Export Council Canadian Wood/ FII-India	32,124	35		
Canadian Wood/ Fil-India China International Furniture Fair	16,108 18	3		
	10			

WOODNEWS

COMPANIES IN THIS ISSUE

Company Name	Page Nos.	Page Nos.	Company Name	Page Nos.	Page Nos.
DelhiWood 2023	54		Myanmar Timber Enterprise	170	
Digital Printing Association	22,180		National Hardwood Lumber		
Export Promotion Council for			Association	32	
Handicrafts		113	N-tech Research	116	
European Council of the Paint, Printing Ink, and Artist's Colours			Programme for the Endorsement of Forest Certification	134	
Industry	112		Taiwan Woodworking Machinery		
Empa	104		Association	26	
Indian Institute of Technology,			The Carpenters' Line	132	
Guwhati	168		Unilin Technologies	170	
Interzum 2023	24		Wood Taiwan 2023	26	
Ligna 2023	20		World Furniture Expo 2022	28	
Malaysian Timber Council	174				
Michigan State University	88		Printed by V. Krishnamoorthy, published by Pradeep Devaiah on behalf of PDA Trade Me		lf of PDA Trade Medi
Editorial	Advertisement		printed at Repromen Offset Printers Pvr. Ltd., No 46 & 47, Krishna Reddy Layout, Domlur, Bangalore - 560 071 and published at 32/2 Spencer Road, Frazer Town, Bangalore, 560 005 Editor: Dhananjay Sardeshpande.		

MACHINE TOOLS

6" (150 mm) Glue Roller **Wood Working Machines** -Hot vacuum Press ·Panel Saw ·Manual Edge Bander ·Dust Collectors, Etc. RASA Engineering Ent. 153 G I D C Waghodia, Dist. Baroda 391760 Cell: & WhatsApp 9898442585 Retail & Wholesale Prices naren_mehta@hotmail.com **Dealer Inquiries Wecome** www.rasaengineering.com



Mob: 9447283789, 9744421115 Email: lignomatindia@gmail.com

PAINT CONSULTANT

MUKUND



ADVERTISE IN WOODNEWS

Contact:

Vinay: +91 99860 66828

E-mail: vinay@pdatrademedia. com



Contact:

Chandru +91 99866 00036

E-mail: chandru@ pdatrademedia.com

www.woodnews.in



JAYARAJ INTERNATIONAL (P) LTD., AN ISO CERTIFIED COMPANY 9001:2008

LARGEST IMPORTERS OF TIMBER LOGS & SAWN TIMBER T. RAJA SEKHAR MANAGING DIRECTOR















Timber Yard Enquiry No. Projects Contact Email Website : No. 19, Puzhal Union Road, Vadaperumbakkam, Chennai – 600 060

: 9840815812 / 7092212666

: 9840070992

- : jayarajenquiry@gmail.com
- : www.jayarajtimber.com

We specialise in supplies to Builders & Housing projects

NUM

First ever experience centre in india

Spread across 55,000 sqft

JOB WORK

- ROLLER LINE
- SPRAY COATING LINE
- MANUAL PRESSURIZED PAINTING BOOTHS

FINISHING SOLUTIONS

giardinaindia

experience center

BY VINPACK INDIA PVT LTD.

- DIGITAL PRINTING
- PACKAGING
- RESEARCH AND DEVELOPMENT

Metal | Glass | Plastic | Wood | Composite Materials Fibre Cement | Ceramics | Aerospace | Automotive

Giardina is a world leader in the finishing technologies for wood, glass, composite materials, plastics and metal.

GIARDINA INDIA BY VINPACK INDIA PVT LTD. 12/A Kumbalgudu Indl. Area, Kengeri Bangalore -560074



giardinag







Italían Furníture Fíttíngs

Libera Hinge THE ELEGANT SOLUTION









Booth No.: H11 R808

2-5 March, 2023 IEML, Greater Noida

TELESCOPIC CHANNELS











🔀 fgv@hindware.in 🔇+91 7428536318 🔀 www.fgvbyhindware.com

🎔 | 💽 | 🞯 | 🚹 /FGVbyhindware