

WOODNEWS

Furniture and Manufacturing Technologies

28
Years

Pioneer in the service of the woodworking industry

ANOTHER OPPORTUNITY TO
**UPGRADE,
UPSCALE AND
COMPETE** P.20

SHOW ISSUE

DE·HI
WOOD

13 - 16 March 2019
India Expo Centre & Mart,
Greater Noida, India

DELHIWOOD 2019



**INDUSTRY
FOCUS** P.78

Gabon SEZ is a golden investment opportunity

FEATURE
Natural composites are New Age materials P.112

**EBCO
NEWSLETTER**
Kitchen, wardrobe and smart office solutions P.149

PDA
TRADE MEDIA



A superior choice for interior woodwork



WESTERN HEMLOCK

It is ideal for solid wood furniture and interior designing. It's known worldwide for its even density and excellent machining properties.

Being non-resinous and light in colour, it can take on any paint, stains and finishes for that perfect look.

Visit us at

**DE·HI
WOOD**

Date: 13-16 March, 2019

Time: 10 a.m. to 6 p.m.

Booth No: H09 A102

Venue: India Expo Centre and Mart,
Greater Noida

B.C. wood species: Western hemlock | Yellow cedar | Douglas fir | Western red cedar | Spruce-pine-fir (SPF)

NARSI™

DEFINING SPACES INTO MASTERPIECES



A wide range of Premium Furniture Products in Modular, Knock down and Prefab forms.

State of Art Manufacturing facility with cutting Edge technologies

A one stop Interior Fit out Provider

**NARSI INTERIOR INFRASTRUCTURES PVT. LTD.
NARSI & ASSOCIATES**

(An ISO 9001:2015 Certified Company, Crisil Rating: SME-1)

515/522, Laxmi Mall, Bldg. 5, Laxmi Industrial Estate, New Link Road, Andheri (W), Mumbai- 400 053.

Tel : +91-22-42505555 Fax : +91-22-42505577 Email : mail@narsi.in Website: www.narsi.in



NITSHAW

**World Leading Technologies for
Wood | Panel | Surface**



VISIT OUR PARTNERS AT:
DELHIWOOD 2019

Baumer - H11H804a
Fullpower - H15 E505
Heesemann - H15E509

Holzher - H15 E511
Imos - H15D410
Venjakob - H15E509

Weinig - H15 E511
Wemhoener - H15E509
Woodmizer - H15 C304a



Nitshaw Wood, Panel & Surface Technologies Pvt. Ltd

#003, Bhagini Regency, PWD Main Road, B Narayanapura, KR Puram, Bangalore 560016, India.

info@nitshaw.com | www.nitshaw.com | +91 87927 31778 | +91 80 28510199

Visit Us at

DEHI 2019
WOOD

Booth: H14 E518

TAIWAN

CANADA



INDIA

SERVICE

SWEDEN

RUSSIA

Product Range: Holytek is an expert in both Solid Wood & Panel Processing.

World Class Quality Equipment & Service for Maintaining Your Global Edge



High Speed
Double Surface Planer



Straight Line Rip Saw



Finger Joint Line



Hydraulic Clamp Carrier

HOLYTEK
INDIA

HOLYTEK INDUSTRIAL CORP.

9F-1, No. 400, Sec. 1, Chang Ping Rd., Taichung, Taiwan
Tel: +886-4-2245-2818 (Rep.) Fax: +886-4-2243-6928

E-mail: holytek@holytek.tw
<http://www.holytek.com.tw>

HOLYTEK INDIA a division of **WOODTECH** E-mail: info@woodtech.in www.woodtech.in
M/S WOODTECH CONSULTANTS PVT LTD. Tel: +91-080-2836-4584/85 Fax: +91-080-2836-1166



Siempelkamp



ContiRoll® Generation 9

Choose the best forming and press line for your new plant.

Siempelkamp India Pvt. Ltd.
Tel.: +91 33 2283 2014 / 2034
Fax: +91 33 2283 2041
info@siempelkampindia.com

Shortest startup time: 100 % production readiness within
4 weeks after mechanical completion and electrical checkouts.
Siempelkamp performance at its best.

ContiRoll® Generation 9
unrivalled performance

Leadership in Technology

www.siempelkamp.com

Work Smart!

With the finest assets for Indian offices!
Ergonomic. Convenient. Productive.

Visit us at:
DEHI
WOOD
13th to 16th March, 2019
HALL H09, B202.
India Expo Center and Mart,
Greater Noida



Articulated
Keyboard Stations



Electric Boxes



CPU Stations



Combination
Locks

Planning office interiors and furniture? Think smart about your investments into these assets! Think Worksmart!

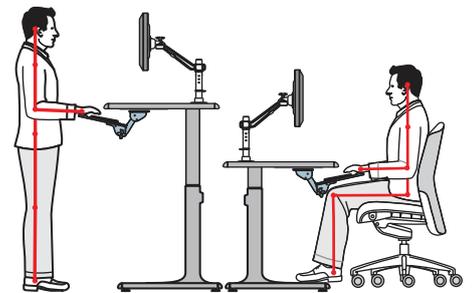
Worksmart fittings are developed for an office environment and provide better utilization of space, ease of use, better health over long working hours, resulting in improved efficiency and productivity.

- Height Adjustable Desks
- Computer Monitor Arms
- Computer Wall Stations
- Articulated Keyboard Stations
- Computer Keyboard Trays
- CPU Stations & Office Furniture Essentials.

Contact us at 022-67837777 or worksmart@ebco.in to make an appointment with our team.

National Display Centres: Ahmedabad: 079-26880478, Bangalore: 080-25503372, Chennai: 044-24611937, Cochin: 0484-2333394, Coimbatore: 0422-2548316, Delhi: 011-49843306, Guwahati: 09435111409, Hyderabad: 040-23557252, Indore: 0731-4040800, Jaipur: 0141-2390773, Kolkata: 033-46034171/72, Lucknow: 09506464066, Mumbai: 022-67837700, Nagpur: 0712-2221637, Pune: 020-26456787, Raipur: 07773014904, Surat: 0261-2234677

Ergonomics@Work™



Worksmart 
ERGONOMIC HARDWARE FOR OFFICES

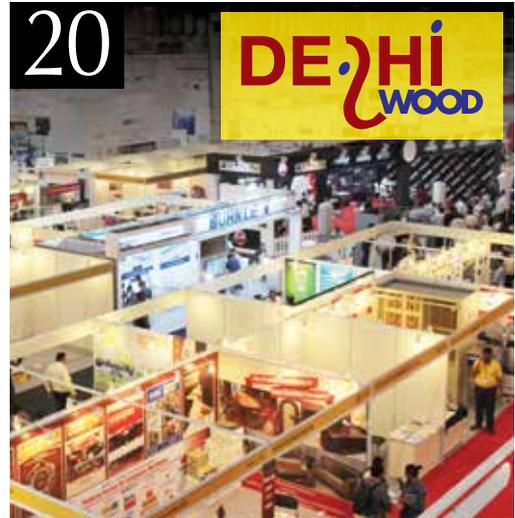


www.ebco.in



Contents

JANUARY - FEBRUARY 2019



TECH UPDA

- 12 From potato chips to particle board
- 14 PUD adhesives may be a 'green' solution
- 16 Perfect nails from waste wood
- 18 AI improves safety, efficiency in mills

COVER STORY

- 20 DelhiWood2019: An opportunity to upgrade, upscale and compete

Exhibitor Highlights

Biesse, Ebco, Homag, Jai, Joway, Leitz, Rushil Décor and many more

EVENT REVIEW

- 62 The Mallet collection speaks of form, function and fantasy
- 64 Bosch moves beyond mobility to enter the smart lane

EVENT PREVIEW

- 68 CIFF proving to be an influential platform for furniture, furnishing

EVENT UPDATE

- 70 Interzum to focus on digital printing
- 72 Ligna eyes smart surface solutions
- 74 Malaysia Expo offers key to ASEAN market

INDUSTRY FOCUS

- 78 Gabon throws up interesting opportunities for investment

DESIGN & FINISHING

- 100 American tulipwood shows off in Dubai
- 102 Office chairs that revolutionise the way we work
- 104 Transformational furniture that saves space
- 106 A 'root' bench that focuses on relaxation
- 108 Adding value to design
- 110 MIT researches sustainable construction

Gabon Calling ...

Plywood manufacturing opportunity

25% Discount

On wood price with assured supply of wood

180,000 MT

Per annum of potential raw material at zero cost for Block Board/
Wood Panel industries from the wood waste generated in the SEZ

25% Waiver

Waiver on electricity bill

Upcoming Resin Plant within SEZ

Rent free / Holiday Period of 24 months for
Industrial Plot for Plywood Units



GSEZ

Gabon Special Economic Zone



www.gsez.com

Email : gsez@olamnet.com

Phone : (+241) 02 00 10 86 / (+241) 06 00 56 66 / (+91) 83 83 057 074

Visit us at Delhi Wood 2019 [Hall 12 - STAND H12 L962] at India Expo Mart, Greater Noida (Uttar Pradesh)

Contents

JANUARY - FEBRUARY 2019



112



116



122



144

FEATURES

112 Composites are the New Age material

EDUCATION

116 Polymer family and UV curing

PRODUCTS & PROCESSES

122 Century Ply, E-Chain, EternSpace, Hafele, Hardy Smith, Hettich, Hymen, etc.

NOTES & NEWS

140 Dovetail, PEFC and more

MAINTENANCE CORNER

144 Jai's cold press machine

EBCO NEWSLETTER

149 Kitchen, wardrobe and office furniture solutions

WOODNEWS

Chief Editor | Dhananjay Sardeshpande
dhananjay@pdatrademedia.com

Copy Editor | Roy Thomas
roy@pdatrademedia.com

Founding Publisher | Gouri Ramakrishnan

Founding Editor | Dr. Joseph George

Vice President – Publications | Tony Doulton
tony@pdatrademedia.com

Manager - Advertisement | Fabian Roberts
fabian@pdatrademedia.com

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

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

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

Layout | Govindaraju S | govind@pdatradefairs.com

Taiwan, China and Hong Kong:

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

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.

ISSN No. 0971-6734



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

Managing Director | Srinivasan S.

Official Magazine of:



Representative Member for India:



WOODNEWS
e-Newsletter

Receive news updates on fortnightly basis. To sign up visit: www.woodnews.in

Now available online at:



Technology Category



ORNARE®

PREMIUM HIGH GLOSS ACRYLIC PANELS

Super Matt

High Gloss

Extensive Colour choice • 70+ decors to choose
Available on MDF, HD-HMR & Plywood
Real Stone Panels also Available

100% European Acrylic Surfaces from

plasnor **SENOSON**
Anti Scratch Range also offered



+91 99 11 33 2672

care@decora.in

www.decora.in

+91 880 27 27 127

info@ornare.in

www.ornare.in

VISIT US



Hall 10.2 Stall No. E.75
Furniture production | Interiors
COLOGNE, GERMANY
21. - 24.05.2019

World's
Leading
Event

ORNARE DISTRIBUTION NETWORK

Gurgaon
+91 9911332672

New Delhi
+91 9818496926

Bengaluru
+91 8802727127

Jaipur
+91 9772903050

Mumbai
+91 7738251115

Hyderabad
+91 9246189003

Ahmedabad
+91 9004688882

Chandigarh
+91 9888000022

Mark your calendars for DelhiWood and 'Timber forum'



Dear Readers,

Whenever I write about the basic facts of trees, but framed as technology, it sounds like impossible science fiction. However, nobody can dispute the fact that trees are self-replicating, solar-powered machines that synthesise carbon dioxide and rainwater into oxygen! They also provide sturdy building material on a global scale, for a variety of applications – from house construction and utilitarian furniture to decorative and acoustic interiors.

FROM THE EDITOR

DHANANJAY SARDESHPANDE

WoodNews, which has been championing the use of sustainably harvested timber, continues to do so even 28 years after its birth! Towards this end, the magazine is organising the second edition of 'Timber Forum' during DelhiWood 2019, in Greater Noida. DelhiWood (13-16 March) itself has been growing, posting milestones and setting new benchmarks with each edition. All the details you need to know about these seminal events in the Indian woodworking calendar are in the following pages in this issue.

The US government's ongoing restrictions on timber trade with Mexico and a levy of 21% tariff on imports of softwood timber from Canada has thrown up surprising results, according to a report from Market Watch. Norway, Austria, the Czech Republic, Brazil, Germany, China and Russia have filled in the

gap in US imports – but it must be understood that the quantum of imports was miniscule to begin with. My point here is that there are many untapped and expanding resources for raw material supply for the fledgling woodworking industry in India too.

'Composites' has become a buzzword these days in the world of materials, be it for design, construction and (even aerospace) engineering! Did you know that wood is a natural composite material made of cellulose and lignin? Today timber is increasingly becoming the material of choice when there is a need to raise performance levels, address design limitations, or develop new solutions that are designed for the future. There is some fact-finding on this topic in the magazine you hold in your hands.

The year 2018 proved quite an eventful year for Gabon's special economic zone in Nkok in terms of veneer units getting into production mode and signing of agreements for new veneer units. A total of 13 investors from India and China signed up contracts. Both the Indian plywood giants, Greenply and Century Plywood, have joined the GSEZ. Gabon is now the biggest producer of veneer in Africa and the largest veneer exporter in the world. What is more, Indian investors have now signed up for setting up plywood and particle board manufacturing units. Read more about Gabon's untapped timber reserves, sustainable forest management practices, SEZ facilities, logistics infrastructure – and its ambition to become the African continent's biggest woodworking hub.

The *WoodNews* team wishes all our readers and advertisers a Happy New 2019! We wish exhibitors good luck at DelhiWood. And we all look forward to meeting you, dear Readers, at the show!

STAYING IN TOUCH

In keeping with the times and for ease of communication, *WoodNews* has discontinued the printing of Business Reply Envelopes with each issue of the magazine.

However, we continue to welcome your views and reviews of happenings in the industry, your contributions to and suggestions for the magazine, as well as business proposals via email.

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

For Advertising options: tony@pdatradedmedia.com (+91-80-42505059), or fabian@pdatradedmedia.com (+91-80-42505065).

For Circulation and Subscriptions: chandru@pdatradedmedia.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!

profit H350
5 axes CNC machining centre

FORMAT[®]
In a class of its own.

5 AXES FOR LIMITLESS CREATIVITY

The main spindle

The powerful 5 axes spindle with 12 or optionally 15 kW motor guarantees excellent results whilst milling, drilling and sawing at any angle.

Variable position controlled extraction hood

The extraction hood positions itself fully automatically to the workpiece height which significantly reduce the dust and noise emissions.

Precision and Stability

Gantry design, synchronised drive and solid construction for maximum performance

Exact and clean work

A chip deflector mounted to the spindle controlled by the C-axis enables the unlimited use of existing tools.

Unlimited processing possibilities

profit H500

FELDER GROUP INDIA

CALL TODAY FOR MORE INFO +91 22 6171 4300 | www.felder-group-india.com





From potato chips to particle board

In response to the environmental impacts of readily disposable materials, engineers at Chip(s)Board, have developed a material from potato peels that can be used as a panel product like MDF.

The work on this novel product began during the studies and freelance work of co-founders, Mr Rowan Minkley and Mr Robert Nicoll, in London.

The developers wanted to combine this issue of material waste with the problem of food waste, which sees a third of all food produced ending up being thrown away. Working across a range of design and fabrication projects the founders were surprised by the lack of value materials were given and disposability they held after such short lifespans.

Inspired to find a new solution they sought to develop a new material that if treated in the same disposable manner would not have the large environmental impact currently generated by material disposal.

After collecting the peelings from manufacturers, they put the raw potato peel through various refinement processes to create a binding agent that can be applied to their fibres, which include potato skins, bamboo, recycled wood or beer hops.

They then use this to form the material by heat pressing the composite into a robust sheet of board, in a process similar to MDF production that can be processed into an array of products, such as furniture and building materials. The result is a sustainable wood substitute made from the waste potato peelings created from industrial food processing.

The chip particleboard produced is a fine grain rigid board with a quality surface finish for interior design. Available in a range of natural pigments, it removes the need for further painting or sealing, reducing labour costs and environmental impacts. Chip strand board is a smooth fibre board with a smooth surface finish and tensile strength for interior design.

All materials developed by Chip(s)Board are durable, recyclable and biodegradable. They contain no toxic chemicals and have been designed specifically to create a stronger circular economy for materials. Some of the finished products include a milk stool, lamp shade and wall mounting, along with furniture and clothing.

The invention led to Minkley being selected as the United Kingdom's "most promising young engineering entrepreneur" by the Royal Academy of Engineering Enterprise Hub, which aims to encourage more young people to start their own engineering businesses.



Captivate the senses. Surface can be seen and felt.

EDGESEQ S-300

EDGESEQ S-300 – Model 1440 FC

The all-round edge banding machine



Short setup time

Pneumatic adjustment of snipping unit and scraping unit as standard. Optional available for pressure zone, trimming unit and contour trimming unit.

Upgrade after customer requirements

Individual machine adaption. e.g. additional multi-stage technology.

No compromise

Processing of all glue types incl. PUR as standard.

Distinctive. Dependable. Professional.

The solution for your Surfaces.

SPRAYTEQ S-100

SPRAYTEQ S-100

Our finishing system



Compact Machine Design

Automatic finishing in merely 150 ft³.

Efficiency

Substantial lacquer savings with precise parts recognition and exact spray control.

Process Security

An intuitive user interface and machine monitoring assures optimal production.



PUD adhesives may be 'green' solution

Adhesives majors, Covestro, Jowat and Henkel, have developed polyurethane dispersion adhesives (PUD) with a bio-based content of over 50% in a joint project, reports *European Coatings*.

From a purely technical point of view, they could replace conventional adhesives in wood, furniture and automotive applications without major modifications. Solvent-free, water-borne PUDs are used as adhesives in many products. They consist of a urethane and a polyester polyol component.

In the project, the researchers succeeded in producing the polyester polyols on the basis of renewable raw materials: succinic acid, sebacic acid, 1,3-propanediol and 1,4-butanediol were suitable monomers.

The PUD adhesives produced in this way had a total biogenic carbon content of over 50% and had technical characteristics close to the market standard in the wood, furniture and automotive application areas. However, bio-based shoe adhesives still need to be optimised.

Within the framework of the cooperation project, it was even possible to demonstrate bio-based production up to production scale using the example of polyester.

“The only obstacle to commercial implementation is the cost of raw materials. They are currently even higher for bio-based chemicals than for their fossil counterparts. In the medium term, however, these prices may converge,” the project leader, Dr. Martin Melchior from Covestro, was quoted as saying.

Then there would be good market opportunities, because the bio-adhesives also have advantages in terms of climate protection, as a calculation by the Fraunhofer Institute for Environmental, Safety and Energy Technology (UMSICHT) shows. According to this, bio-based PUDs have a CO₂ footprint reduced by more than 25% compared to conventional fossil-based PUDs.

OPTI MIZA TION

BIESSE.COM

PRODUCTIVE ECONOMY.

Productivity and efficiency are increased, while maintaining high quality standards and fast delivery times.



Rover S FT

VISIT US AT DELHI WOOD 2019
H15 C308, H14 C310

 **BIESSE**

 YEARS
 **BIESSEGROUP**

Perfect nails from waste wood



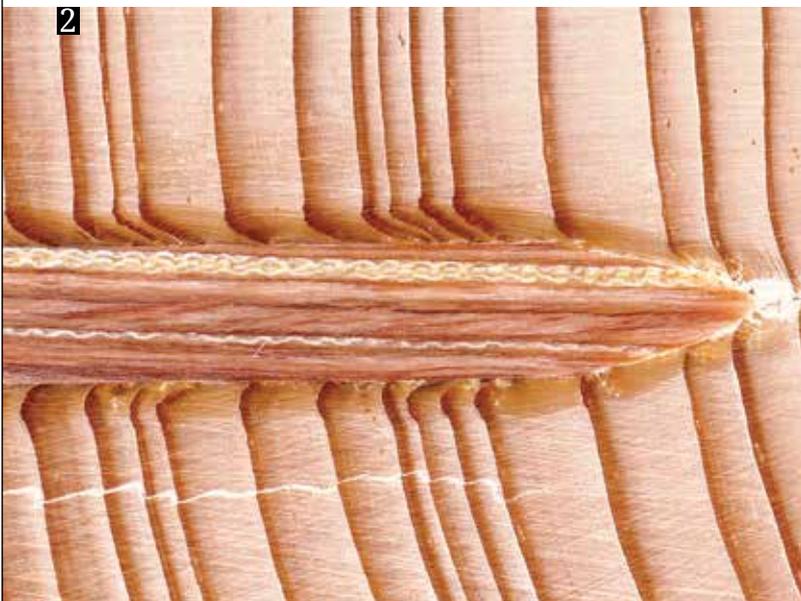
1 *The wooden nails blend harmoniously into the wood structure and do not need to be concealed after installation.*

Made from European Beech, LignoLoc nails can be driven into wood quickly without requiring pre-drilling. When the nails are driven in, they fuse perfectly with the surrounding wood, forming an inseparable bond known as lignin welding.

And thanks to the fusing with surrounding wood, they have no need for heads!

2 *Microscopic image of the bond between LignoLoc wooden nail and the surrounding Beech wood.*

The nails form no thermal bridges and leave no trace of corrosion. They're also resistant to fungal infestation and decay due to resin infusion, which the manufacturing companies say make them optimal for outdoor applications and areas often susceptible to corrosion.



Made by Beck Fastener Group and Fasco America, LignoLoc is the first collated nail made of wood. The nails are obviously a more environmentally friendly choice over metal nails.

Beech is a renewable, indigenous raw material and LignoLoc's manufacturing process is also beneficial – more carbon is bound than emitted, creating a negative CO₂ balance, unlike conventional metal nails.

The nails have already been introduced successfully into industrial production and ecological timber construction in over 20 countries. LignoLoc nails have a diameter of .145" and are currently supplied in lengths of 2", 2-1/4" and 2-1/2".

Strong bond

The nails won third place for special innovations at the Ligna 2017 in Germany.

The special design of the LignoLoc nail tip, and the large amount of heat generated by friction when the nail is driven in, cause the lignin of the wooden nail to weld with the surrounding wood to form a substance-to-substance bond.

The phenomenon of lignin welding was established in 1998 and has since been verified by the Beck Fastener Group in collaboration with scientists at Hamburg University by means of UV-scanning of the cell structure.

There is hardly any water absorption, so no expansion is seen in the furniture. It also offers better fire protection in a wood structure than steel or metal fasteners. It has a tensile strength similar to aluminium nails (~ 250 N/mm²).

LignoLoc wooden nails are shot in pneumatically. This completely eliminates the need for any additional pre-drilling, such as that for wooden dowels, which in turn saves time and money.

LignoLoc wooden nails, processed in reclaimed wood, blend harmoniously into the wood structure and do not need to be concealed after installation. This time benefit makes wood recycling even more attractive.



**THERE'S AN
ALTENDORF
FOR EVERYONE.**

Visit us @ DelhiWood
Booth No. H15 F608

*Start precise
cutting now:
START 45.*



*For those who
have little space:
Altendorf WA 6.*



*For those who
need maximum efficiency:
Altendorf F 45.*



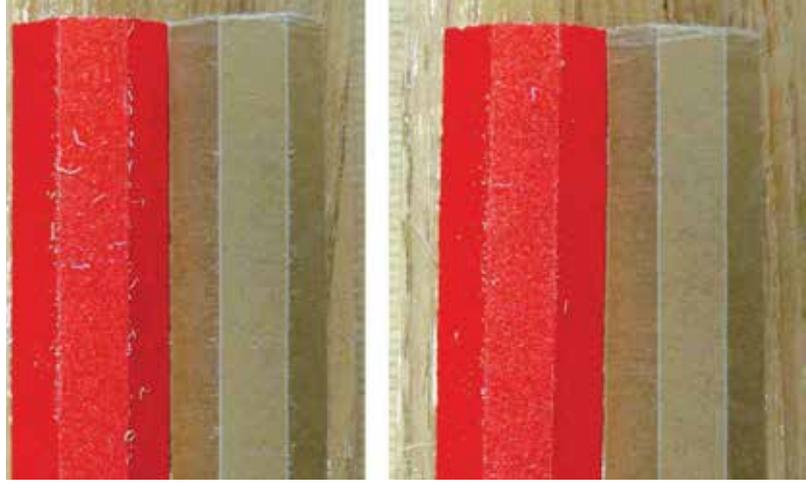
*For those who
love performance:
Altendorf WA 8.*



Silica particles for durable water-borne wood coatings

When making the switch from solvent to water-borne wood coatings, the goal is to not compromise the function and performance. As per research, epoxy silane-modified colloidal silica can contribute to improve block resistance and sanding properties of water-borne clear coats.

Very few studies have been done on the use of silane-modified water-based colloidal silica particles in formulations of water-borne coatings. Recently there has been great interest in such particles in water-borne lacquers as they have shown to provide benefits like anti-blocking, sanding and wood grain accentuation in acrylic emulsion-based wood coatings.



Recent research has confirmed the effect of adding silane-modified colloidal silica to water-based clear coating formulations on open time and on the anti-blocking, sanding and mechanical properties.

While no changes in gloss levels in compression to a reference system without any silica particles could be found, other properties changed quite a bit. Depending on the test system and the amount of particles blocking and sanding resistance grew strongly. The best results were obtained for the test system with highest tack.

However, the effect of silica on abrasion resistance is very formulation dependent. Distribution of silica in the matrix and the degree of cross-linking of silica in the matrix are important factors; i.e. there is a big difference between one-pack and two-pack systems. <https://360.european-coatings.com>.



AI improves safety, efficiency in mills

ATCO Wood Products, a British Columbia-based softwood veneer producer and forest manager that specialises in producing high-quality softwood veneer and other wood products, as well as sustainably managing the forests, will pilot a state-of-the-art, AI-enabled environmental sensor to improve safety and efficiency at its mill operations.

The AirSafe sensor, from Astra Smart Systems and Carl Data, is a light-weight device that measures temperature and humidity, while detecting dangerous substances, including methane, hydrogen, formaldehyde gas, and smoke. AirSafe learns from its environment through its AI, allowing it to give accurate future predictions.

“We’re excited about the sensor technology we are piloting for Astra, as we see applications in our facility to improve the data we have on our manufacturing environment and in turn improve the safety, quality, and productivity of our operations,” said Mr Scott Weatherford, CEO at ATCO.

While ATCO says it is proud of its health and safety record, lung and bronchial disease account for 14% of reported injuries in the veneer manufacturing industry.

The current pilot testing the AirSafe sensor is being used to detect methane, butane, LPG, and smoke, but can be easily adapted to test for benzene, toluene, alcohol, acetone, propane, formaldehyde gas and hydrogen.

Swedish wood – a versatile, modern material



Swedish sawn timber consists mainly of softwood: spruce and pine. Thanks to its high quality, Swedish wood is used for furniture, floors, wall panels, mouldings, windows and doors, as well as for construction. All Swedish timber comes from sustainably managed forests, where every harvested tree is replaced by at least two planted seedlings. World-wide, Sweden is the third largest exporter of sawn timber.

DE·HI
WOOD

Hall 11, Booth No. G708

Come and meet us at Delhi Wood 13th – 16th March 2019
at India Expo Centre and Mart, Greater Noida, India

 **SWEDISH
WOOD**

www.swedishwood.com/India

An opportunity to upgrade, upscale and compete



DE·HI
WOOD

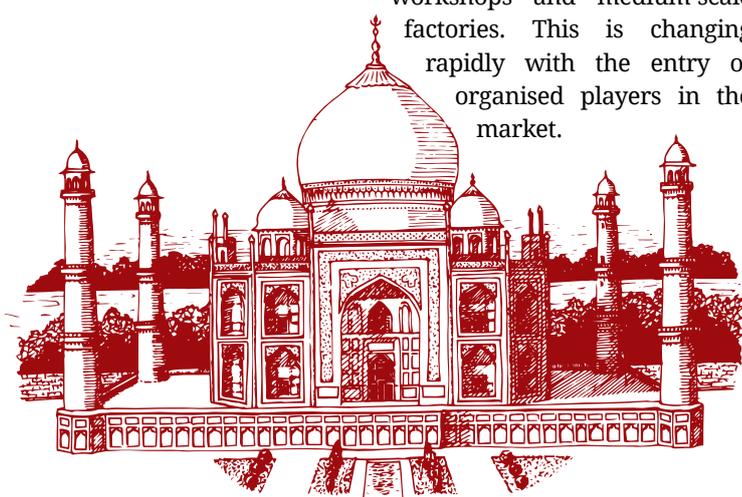
DelhiWood 2019 (13-16 March) highlights will flow from more exhibitors, more visitors and more opportunities

Growing demand for office and co-working space, retail expansion and residential projects will offer unlimited opportunities for India's furniture manufacturing sector. Visit DelhiWood 2019 to further explore markets and materials, technology and growth opportunities.

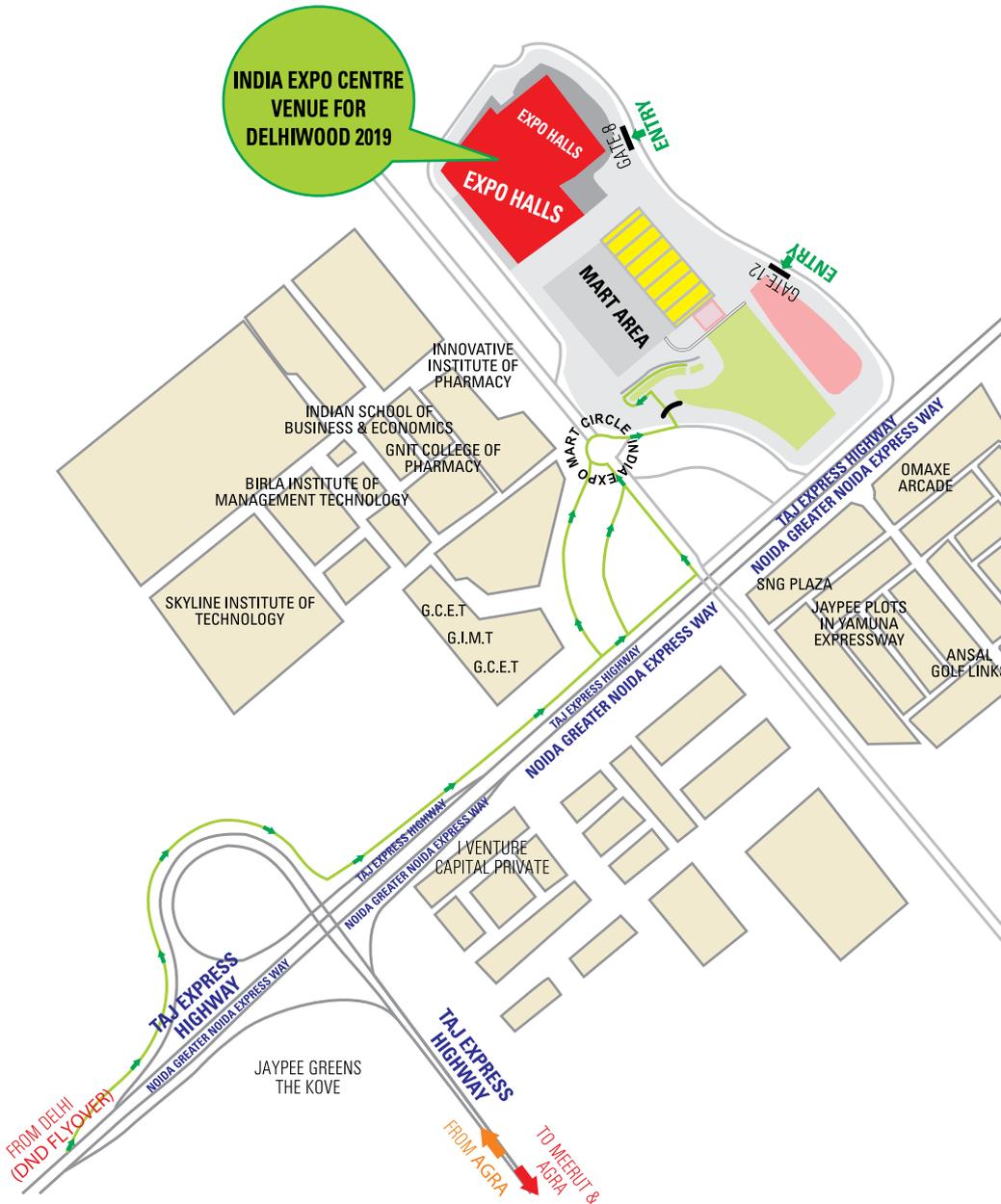
In India today, close to 80% of furniture manufacturing and the market is unorganised, with the bulk of the supply provided by small workshops and medium-scale factories. This is changing rapidly with the entry of organised players in the market.

E-retailers like Urban Ladder and Pepper Fry are also bringing in consumer awareness, along with ease of buying transactions through technology. The global giant IKEA is likely to push the furniture industry to get organised faster and set itself on the path of quality in production and innovation in design.

In spite of the growing demand, close to 70% of India's furniture requirements are being met through imports from China and other countries. This is primarily because as the demand size becomes more organised, driven by corporate or brand specifications, the supply side has to increase its quality standards and delivery orientation.



Route Map



* The above map is not according to scale. This is for representation purpose only

Courtesy: [Google Maps](#)

Hence, high customer expectations will be the driving factor to upgrade manufacturing technology, adopt scientific production processes, and set quality standards to meet these requirements of global corporations and end users.

Trade platform

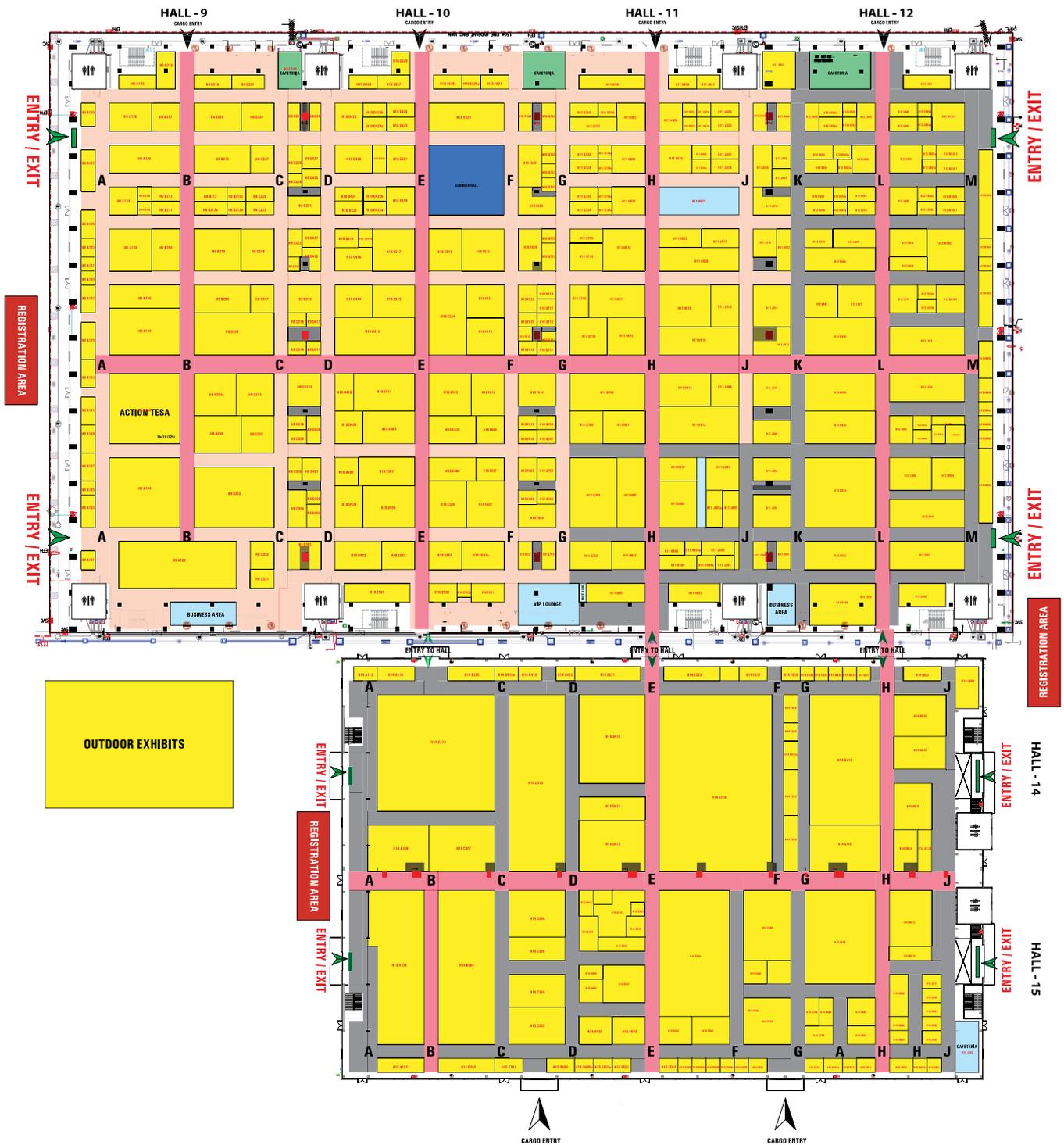
To help meet this need, DelhiWood has consistently offered an all-encompassing platform for both the demand and supply side to equip themselves with latest in technology, design, machinery, raw materials and unlimited market opportunities.

The 4-day trade show (13-16 March) in Greater Noida will once again offer the industry an impressive 42,000 square metres of demonstration and display space for machinery, raw materials and semi-finished products, components and consumables, hardware and fittings for the interior and furniture manufacturing sector.

This edition of the show will witness more than 550 exhibitors from 30 countries and 12 country pavilions.

Furniture and kitchen manufacturers, architects, interior designers, timber traders, ▶

Hall Plan



saw millers, builders, contractors, hardware distributors, dealers from all over the country and those from Nepal, Bhutan, Sri Lanka and West Asia are expected to participate.

Opportunities beckon

India is the world's fastest growing economy in major emerging markets. With gross domestic product (GDP) growth exceeding 7% in fiscal 2019, the economy is seen to be robust, with higher potential for growth. The key drivers for this growth are government intervention, sustained investment, manufacturing and strong domestic consumption.

In fact, a recent report by the World Economic Forum predicts the Indian economy to be the third-largest in the world by 2030, following the United States and China.

The country's economic recovery from the effects of demonetisation and implementation of the unified Goods and Services Tax (GST) is reflected in the GDP growth.

So far as the furniture manufacturing sector goes, there are clear uptakes in infrastructure related activities, in the form of 'Smart' cities, and a growth in real estate construction in the commercial, residential and office spheres.

The real estate and infrastructure sector is steadily evolving towards greater adherence to regulations and amenable to transparency.

As a result, linked sectors such as furniture manufacturing stand to benefit from this change and grow exponentially.

Skills competition

The World Skills Competition, also known as 'Skills Olympics', has been the focus of the Furniture and Fittings Skills Council (FFSC) of India. Candidates from across the globe get a platform to showcase their skills in different trades and compete at the international level.

FFSC participated in the World Skills 2017 edition in Abu Dhabi, and plans to field a team for the next edition in Kazan (Russia) in August 2019. Joinery and cabinet making have been selected by FFSC, and the candidates have been vetted through a series of regional and national level competitions.

The winners of the IndiaSkills 2019 competition are now preparing to represent India at Kazan. During DelhiWood FFSC will invite these two finalists to display and demonstrate their respective test projects over all 4 days of the exhibition.

Entry to the exhibition is free and open only to trade visitors above 18 years of age. Pre-register online to avoid queues at www.delhi-wood.com. For more information visit www.delhi-wood.com or woodshows@nm-india.com, or call the DelhiWood team on +91-80-46748888.



'Timber Forum' on 15 March



Following the huge success of 'Timber Forum' at IndiaWood in Bengaluru in 2018, the second edition of the on-going engagement for all stakeholders of the woodworking and construction industry has been scheduled on 15 March (2-6 pm) during DelhiWood.

'Timber Forum' has been conceived by *WoodNews* magazine as a knowledge-sharing platform for suppliers (timber traders, importers & exporters), end users (furniture makers & real estate construction companies) and influencers (architects, interior designers, project consultants, etc.).

These stakeholders visit DelhiWood from all of India's woodworking hubs – as well as those from neighbouring countries – in the residential and commercial segments.

The theme this time is 'Versatility of Timber'. The aims of the Forum are:

- Understanding the Indian market: demand, trends, pricing, and potential;
- Availability of timber, sustainability of sources & logistics of buying;
- Timber species from around the world, their use for various purposes;

- Suitability and adaptability of foreign hardwoods and softwoods;
- Traditional and innovative applications in furniture, construction and interiors;
- Connecting, engaging timber suppliers with end users and influencers.

A keynote speaker will address the audience to share his/her knowledge to enhance the stakeholders' understanding of wood and its versatility in respective segments. A panel of experts from the fields of architecture, design, construction, furniture manufacturing and wood science will make presentations.

This will be followed by a panel discussion on 'Challenges and Solutions in Woodworking', along with interactions with the audience. One-on-one meetings between suppliers and consumers are also on the cards.

Architects and interior designers, builders and contractors, timber traders and furniture manufacturers are invited to register their participation on <http://www.delhi-wood.com/timberforum.php>. Alternately, you may call Mr Fabian (+91-9916092927) for details.



● Redefining Panel process Technology

Brand-new challenger to Global Brands!



OptiCut 3.2 (auto) Beam Saw Unbelievable Saw carrier speed and cutting thickness, all adjustable to your need. Stability and service life of the machine is incredible.

Quality, precision & reliability. Perfected to the highest standard possible

OptiSaw (auto) 3.2 Panel Saw



Euro standard engineering to maximize the ease of operations & speed of production

OptiEdge 6.5 P Highspeed Auto Edge Bander



Complete package of precision, safety, satability & utility. Redefined

OptiDrill 2.3 - Three Head Boring



Offering multi-operational boring functions with flexibility & high productivity

OptiBore. CNC Boring & Routing



Multi-sided boring & routing with continuous high-efficiency CNC processing

- Optimum precision, performance & operating comfort
- Un-compromised productivity in continuous operations
- Sturdy design with premium components
- Complete engineering precision in manufacturing
- Low maintenance cost. Best After sales & spares support

Jai Industries Gujarat, India
 optimus@JAIndustries.com • www.JAIndustries.com

Globally Compatible **Optimus** from





Leitz offers improved range of saw blades

Leitz, the German precision tools and tooling systems manufacturer, has introduced into the market an improved saw blade range for the woodworking, non-ferrous and plastic machining industries.

“Premium” range saw blades are improved versions of the earlier regular range for sliding table saws and beam saws. They have been developed with improved carbide quality and the addition of vibration damping ornaments, resulting in increased cutting quality and tool life.

These are suitable for table saws and sliding table saws with ‘alternate bevel’ that can be used for solid wood, uncoated boards and plywood. They are also suitable for sliding table panel saws and beam saws in ‘flat trapezoidal’ or ‘fully trapezoidal’ tooth configuration, to be used along with scoring for pre-laminated boards or boards with HPL.

“Excellent” range saw blades that are designed to provide the highest quality finish due to plastic-filled laser ornaments and special cutting geometry, and available with improved grade of carbide tips or diamond tips, for longer life.

“Katana” saw blades have unique tooth configuration with alternate angle of cutting face for best cutting results on solid-wood across grain, plywood, honeycomb boards, thin-walled plastics and non-ferrous metal profiles.

Razor cut saw blades are for special cutting geometry with irregular tooth pitch for all wood derived materials, compact laminates and Corian.

“Brilliance” cut saw blades achieve an almost transparent finish on acrylic eliminating the need to sand the edges, before buffing.

“Diamaster” pro saw blades for sliding table saws that ensure longer life and improved finish on wood-derived materials, compact laminates and advanced materials like gypsum and cement-fibre panels, fibre-reinforced plastics, ‘Alucobond’, etc.

“Diamaster-plus” saw blades for beam saws that ensure longer life and finish on all wood derived materials, compact laminates and fibre reinforced plastics, capable of operating at much higher feed-rates compared to TCT sawblades.





> Start video

Customer Care
1800 266 6667 (toll free)
customer care@hafeleindia.com

HÄFELE

LEGRABOX pure – Elegance in Motion

Streamlined contours, lean design and a wide choice of materials and colours combined with high quality of motion – this is LEGRABOX pure by Blum.

www.blum.com/legrabox

 **blum**[®]

Globally comparable Optimus from JAI

One of India's biggest and most happening brands, Jai, will be launching "Optimus" its latest, premium range of machinery at the Delhi Wood 2019 trade-show.

The Indian panel processing industry has matured and most manufacturers prefer buying, installing and working only on world-class machinery. Jai-Modula has been providing such precision machineries and based on rising demand brought out machines that are comparable to any reputed global brands.

"Optimus" is a brand new range of machinery that redefines panel-process technology for Indian industry and is backed up by world class 'sales-service-spare' and personalized guidance. Compared with similar machines of global brands, the machine matches various aspects like quality, technology, features, precision, ease of operation, while being made available at affordable prices and nationwide support.

Presently the range has five machines, which are most in demand and constantly delivers high performance in continuous industrial productions and is highly automated for maximum operating comfort and high precision.



OptiCut 3.2 (auto) Beam Saw

OptiCut Beam Saw is an incredible panel cutting machine for high production units that have variable carrier speed, adjustable from slow to very high speed conversion. Combined with impressively high cutting thickness, it has incredible operational stability and service life.



OptiSaw (auto) 3.2 Panel Saw

OptiSaw Panel Saw delivers a definitive panel saw performance and is a Euro standard engineering package designed to maximize the precision, production and ease of operation. Equipped with a heavy-duty precision sliding table, a smooth running and powerful saw unit, motorized ripfence (with accuracy of +/- 0.1 mm), sturdy frame with telescopic cross-cut fence, the panel saw has many valuable features.



OptiEdge 6.5 – High Speed Auto Edge Bander

This is the Edge Bander that optimizes productivity significantly. Precision, perfect finish, stability and utility of the OptiEdge are more than comparable with any machine in the market. A complete package of excellence with great ease of operation; it has all the features that is required in an edge bander.

OptiDrill 2.3 – Three Head Boring

OptiDrill offers multi-operational boring functions with flexibility and high productivity along with precision boring with pre-destined

positioning and sizing that is a crucial component of any panel product or furniture unit. OptiDrill is like a master key that handles all required boring operations, with complete precision.

OptiBore – CNC Boring and Routing

For users who need computerized control over their boring operations with an added advantage of routing facility, OptiBore is designed to give multisided boring and routing. Its digital control system offers unimaginable control and efficiency over job handling at all levels, with continuous processing workability.



Rich Fill
WOOD PUTTY

RICHWOOD

Rich Fill
Plywood Plus

Richwood the manufacturer of India's Best & High Strength Wood Putty & Plywood Crack Filler "Richfill", glad to introduce a New Research Product for Plywood & Flush Door manufacturers.

Rich Fill
CALIBRATED FILLER

The New Innovative Product, Which Gives Your Plywood & Flush Door Inner Strength & Outer Beauty

- Useful To Fill Core Gaps Of Plywood & Flush Door
- Useful To Get Uniform & Wave Free Surface & Smooth Finish
- Useful To Get Even Thickness By All Sides
- Helps To Increase The Bonding Strength Of Core To Face Veneer
- Reduces The Problem Of Dark Patch On Face Veneer
- Longer Shelf Life
- Increases The Quality Of Your Plywood & Flush Door.
- Economical

Manufactured By

RICHWOOD

Plot No. 37, Industrial Estate, Hotgi Road, Solapur- 413 003 Maharashtra

E-mail : rich_wood@rediffmail.com

Website : www.richfill.in

Cont. No.: +91 9422380160, +91 7722066771 / 777



Biesse's Sophia: the power of prediction!

Visitors to Biesse's 600-square-metre display area will be able to experience Biesse's most innovative technologies for wood processing, integrated with and supported by software and services for the automation and digitalisation of the factory.

Among the new developments on display this year are the latest Biesse machines: the new edge banding series; Skipper-100 CNC horizontal boring machine for sandwiched panels; the Rover A with 5-axes head with continuous interpolation; SetUp assistant which offers fool-proof work table settings; the Rover S FT flat-table CNC for nesting of panels; and the very popular Rover Gold machine with a new look and featuring advanced options like the bPad and bTouch interface developed by Biesse.

These are machines guided by software to manage the various needs, and are able to carry out the work in predetermined times; but always with the same standard of quality.

Biesse is proud to demonstrate for its clients all of the features of Sophia, the service platform that simplifies and rationalises the management of work. The platform, on the market for just over a year, has been met with great interest and satisfaction and has received various awards for its innovative nature around the world.

In the past 8 months more than 1100 Biesse machines (work centres, edge banding machines, and panel saws) have been sold

with the Sophia packet. At the Biesse stand, the expertise of the technical and sales staff is available to provide solid answers to those present.

Visitors will also be able to request information on Sophia, Biesse's IoT platform, created in collaboration with the Accenture consulting firm, which provides its clients access to a wide range of services for simplifying and rationalising the management of their work.

It is based on a connection to a cloud service and to special sensors applied to the Biesse machines. The information and data on the technologies in use can be recorded and sent in real time to optimise performance, prevent malfunctions, and increase the productivity of machines and systems.

In addition, the direct connection to Parts, the Biesse replacement parts portal, and the chance to upgrade software with just a few clicks, provides clients with everyday work tools that can simplify a host of tasks.

The main value of Sophia is the power of its predictive nature – the ability of this technology to provide a vision of the future, anticipating issues that may arise, identifying solutions, and improving performance.

The IoT features within the platform guarantee a significant increase in productivity, thanks to a process of constant, accurate and comprehensive analysis and reporting on manufacturing performance.

■ made
■ in
■ Germany



KLEIBERIT[®]

ADHESIVES • COATINGS

Solutions for woodworking and furniture production - worldwide.

3D Form Press

„Brilliant Surface Quality“



KLEIBERIT Supratherm
430 / 436

Profile Wrapping

for wood and wood-based materials



EVA and PO Hotmelts

- excellent application properties
- very high green strength and very good wetting
- good temperature resistance up to 90 °C (EVA) / 120 °C (PO)
- good ageing resistance

PUR Hotmelts

- excellent application properties
- very high initial tack
- highest heat resistance (140 °C) and cold resistance (-40 °C)
- excellent water resistance
- bonding of widest range of materials: e.g. lamination materials made of veneer, PVC foils, CPL, paper, aluminum foils etc. onto profiles made of chipboard, MDF, metal etc.

Competence PUR

COIMBATORE: M/S. MEGHA TRADING COMPANY: Mr. Kavin M. +91 94426 20726 / +91 422 4373559 / 60 meghatradingcom@gmail.com
 CHENNAI: M/S. MEGHA TRADING COMPANY: Mr. Kavin M. +91 94426 20726 / +91 422 4373559 / 60 meghatradingcom@gmail.com
 ERNAKULAM: M/S. MEGHA TRADING COMPANY: Mr. Kavin M. +91 94426 20726 / +91 422 4373559 / 60 meghatradingcom@gmail.com
 BANGALORE: M/S. MEGA PANELS PVT. LTD.: Mr. Manoj Dugar / Mr. Manish M. +91 97313 01667 / +91 97313 01669 / +91 806547 6474
 megapanelsgmail.com / megapanelsgmail.com
 SECUNDERABAD: M/S. PYRAMID IMPEX INTERNATIONAL: Mr. Hussain Kagalwala M. +91 99894 75152 / +91 40 64595152 / +91 40 64102055
 pyramidimpex@gmail.com
 INDORE: M/S. DSS ENTERPRISES: Mr. Ajay Kumar Ladha / Mr. Alok Ladha M. +91 94253 11239 / +91 94250 65039 / +91 731 2532765 /
 +91 7314040800 shreejeeh@gmail.com / shreejee2009@rediffmail.com
 RAIPUR: M/S. SHREE JEES HARDWARE: Mr. Ajay Kumar Ladha / Mr. Alok Ladha M. +91 94253 11239 / +91 94250 65039 / +91 731 2532765 /
 +91 7314040800 shreejeeh@gmail.com / shreejee2009@rediffmail.com
 AHMEDABAD: M/S. M P ASSOCIATES: Mr. Mitesh Patel / Mr. Rakesh Patel M. +91 97252 08023 / +91 97252 08022 / +91 79 25626851
 "minesh@massociates.co.in / purchase@massociates.co.in"
 JAIPUR: M/S. M P ASSOCIATES: Mr. Mitesh Patel / Mr. Rakesh Patel M. +91 97252 08023 / +91 97252 08022 / +91 79 25626851
 "minesh@massociates.co.in / purchase@massociates.co.in"
 JODHPUR: M/S. MAHAVEER INTERNATIONAL: Mr. Raju Bothra M. +91 99296 70939 +91 291 2742468 / mahaveerinternational@rediffmail.com
 NEW DELHI: M/S. DYNAMIC POWER TOOLS: Mr. Dinesh Kumar M. +91 96508 07166 dynamicpowertools@gmail.com / dineshdynamic77@gmail.com
 NAGPUR: M/S. PRANAL ENTERPRISES: Mr. Rajkumar Dharpure M. +91 93731 00887 rkdharpure@yahoo.com
 LUDHIANA: M/S. AWAL TOOLING: Mr. Mandeeep Singh M. +91 95010 12365 +91 161 4624774 +91 73553 12365 awaltooling@gmail.com
 PUNE: M/S. SHRI KRISHNA ENTERPRISES: Mr. Shankar Prasad M. +91 81499 67968 +91 99702 95291 shrikrishnaenterprises.pune@gmail.com
 MADURAI: M/S. MARI POWER TOOLS: Mr. B. Padmanabhan M. +91 99447 94931 mrpowertools@gmail.com
 MUMBAI: M/S. Aaryaman Interior Solutions Pvt. Ltd.: Mr. Danesh Bhatia M. +91 9320064060 dhaneshbhatia@aryaman.in
 BHUTAN: M/S. UMA ENTERPRISES: Mr. Ashok Mitta M. +91 9002362500 umaign09@yahoo.com
 BANGALORE: M/S. VICTORY COMFORTS: Mr. Arun Kumar Mr. Guruprasad M. +91 94482 92444 / +91 9448563582 +91 80 22233799 victorycomforts@gmail.com
 GOA: M/S. VIKAS ENTERPRISES: Mr. K.V.Desai M. +91 94206 89227 / +91 832 251 0410 desai@vikasenterprises.in
 HIMACHAL PRADESH: M/S. VIDISSA SOLUTIONS: Mr. Manish Gupta M. +91 9988098899 info@ausweg.co.in
 NEW DELHI: M/S. M S KLEBSTOFFE: Mr. Ashish M. +91 9911121636 ashishawar@gmail.com
 BANGALORE: M/S. NARBADA PLYWOOD: Mr. Sunil Jangir M. +91 9886707251 balajiplywood07@gmail.com
 BANGALORE: M/S. WOODMILL Pvt.Ltd.: Mr. Sudhakar M. +91 8971871812 foyaz@woodmill.in
 AURANGABAD: M/S. WEKO PRODUCTS: Mr. Vijay Borade M. +91 9930530558 wekworld@gmail.com
 NORTH KARNATAKA: M/S. VIBAGANI AGENCIES: Mr. Sanjay Battacharji M. +91 9448355770 vibaganiagencies@gmail.com



For further information please contact us:

KLEIBERIT Adhesives India Pvt. Ltd.

3 I, 3rd Floor, No. 6, Rediffice Signature, Hospital Road,
 Shivajinagar, Bangalore - 560 001, Karnataka, India
 Phone: +91 80 2559 6667, +91 80 2559 6669
 Email: info@kleiberit.com

www.kleiberit.com

Homag's sanding technology has been known for its powerful wide-belt sanding machines and innovative surface processing. This includes special and universal sanding machines for calibration, fine sanding and lacquer sanding.

The wide-belt sanders are equipped with various sanding heads with different sanding rollers and sanding belts. Brush units can also be configured for the processing of structured surfaces.

A wide-belt sander (also known as a calibrating machine) is used for grinding the surface of solid wood, fine sanding of sheet material or intermediate sanding during painting and for sanding large surfaces.

There are three sanding units with drive outputs of up to 18.5 kW on offer, enabling the buyer to find the right configuration. The solid frame construction also ensures extremely quiet operation.

The wide belt sander machines offer a sanding width of 1,100mm to 1,650mm, depending on the machine type and effortlessly process work piece thicknesses of 3mm to 200mm.

Homag unveils high-tech sanding, spraying machines

SWT 100

Whether used as a single-belt machine or with two sanding units, the Sandteq W-100 offers an efficient solution for all sanding tasks, including calibration and fine sanding of solid wood, as well as sanding of veneers and interim paint sanding (option).

Drive outputs of up to 15 kW are available to suit various requirements. The independently driven units also ensure fast, high-quality results.

The advantages include space-saving design where an installation area of just 5 square metres is required, excellent sanding results thanks to ACP and EPS pressure beam systems, easily adjustable thanks to infinitely variable feed speeds (2-18 m/min), high drive outputs of up to 15 kW, high level of flexibility thanks to independently driven sanding units, quiet operation because of the solid frame construction



SWT 200

Small and medium-sized carpentry and joinery companies can take advantage of the high levels of performance and versatility offered by this machine for the processing of kitchen, office and solid wood furniture. A user can choose from three sanding unit options to find the right configuration. Drive outputs of up to 18.5 kW are available according to requirements. The solid frame construction also ensures extremely quiet operation.

The advantages of the machine include excellent sanding results thanks to ACP and EPS pressure beam systems, easily adjustable as a result of infinitely variable feed speeds (3–15 m/min), high drive outputs of up to 18.5 kW, high level of flexibility thanks to independently driven sanding units, simplified handling because of automatic workpiece thickness measurement and independent adjustment of the machine and constant processing height thanks to movable machine stands.



Sandteq W-300

This series offers an all-round solution for small and medium-sized carpentry and joinery companies. There are seven sanding

units to choose a configuration to suit every sanding requirement from calibration to high gloss finish. Drive outputs of up to 30 kW and also features automatic unit locking for safety and convenience are available to suit requirements.

Advantages include excellent sanding results thanks to ACP, EPS and MPS pressure beam systems, easily adjustable thanks to infinitely variable feed speeds (2.5-13 m/min), high drive outputs of up to 30 kW, high level of flexibility thanks to independently driven sanding units, simplified handling as a result of automatic workpiece thickness measurement and independent adjustment of the machine and constant processing height thanks to movable machine stands. It also has prepared slots for retrofitting various brushing and cleaning units.

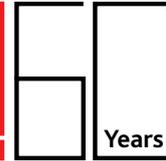


Sprayteq S-100

The Homag spraying machines offer solutions for small or medium-sized companies to refine surfaces with water- or solvent-based coatings. Individually tailored finishing systems provide solutions oriented to needs - from flatbed to spraying robots, stand-alone machines or extensive finishing lines. For ultimate automated efficiency the machines can also be equipped with automated workpiece handling concepts as well as drying technology.

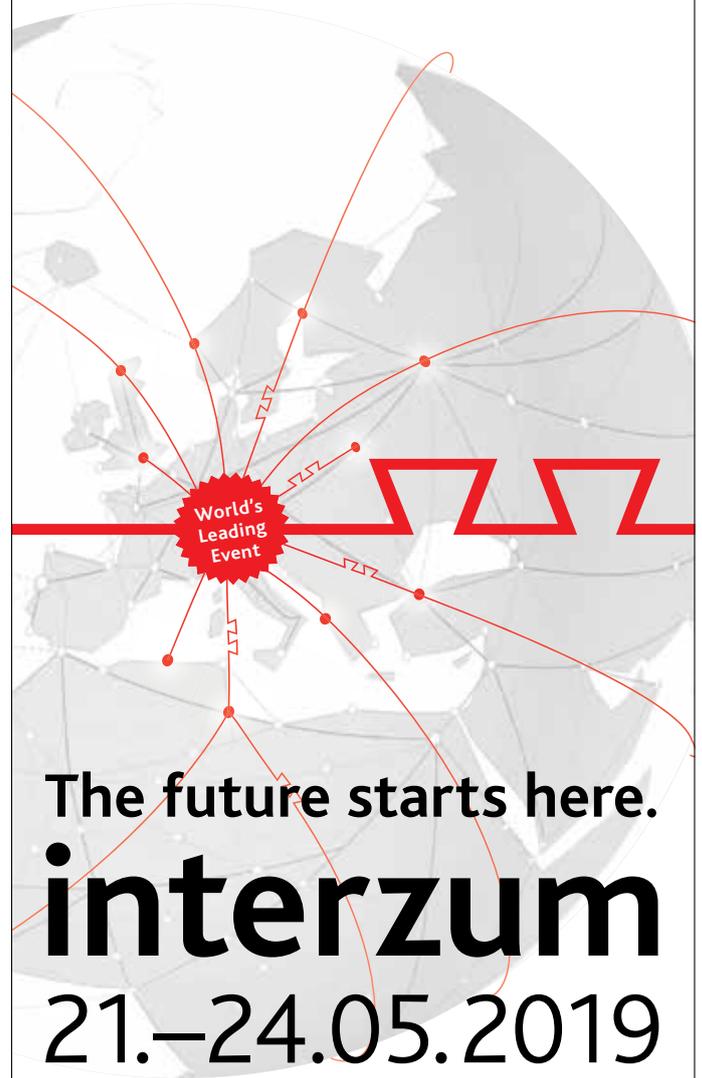
Whether you manufacture furniture, kitchens, interior fittings, stair components or doors and no matter whether they are made of solid wood or wood-based panels, the Sprayteq S-100 spraying machines, offers the suitable entry into high-quality finished surfaces.

The advantages include a space-saving, compact machine with exhaust air unit and switch cabinet integrated in the machine frame. The precision parts detection enables exact control of spray guns and therefore optimum paint saving and results in efficiency. The machines are also reliable and allow monitoring of paper tension, paper breakage and paper winding. It is user-friendly and easily accessible with optimal view of the interior due to glazing on all sides.



interzum.com

Furniture production
Interiors
Cologne



The future starts here.
interzum
21.–24.05.2019

Fresh ideas and progressive solutions! All in one place!

At interzum, you'll find everything you could possibly need in terms of innovating for the future of your business: visionary technology, the newest materials and innovative design. The best ideas and innovations for the furniture and interiors industry make their debut at interzum. As the leading industry event, interzum is the doorway to the future. This is where the key players, trend-setters and driving inspirational forces of the industry come together. Get the competitive edge – and get inspired!

> Buy your tickets now and save up to 25 %!
interzum.com/tickets

Rohit Gupte, Sr. Project Manager
Koelnmesse YA Tradefair Pvt. Ltd.
Office # 1102, 11th Floor, DLH Park, Opp.
MTNL office
S.V. Road, Goregaon (West)
Mumbai – 400062, India
Tel: +91-22-28715206
r.gupte@koelnmesse-india.com



Rushil to expand Vir Studdio experience



Rushil Décor, a leading manufacturer and exporter of wood-based decorative laminates and MDF in India, is looking to expand its vision of setting up more of its Vir Studdio concept marketing across India.

At DelhiWood 2019, the Rushil Décor team will enrol new franchisees that are willing to adopt the marketing concept in order to boost the user experience of Rushil's flagship brands, selling under Vir Laminates and Vir MDF.

A typical Vir Studdio franchise requires a 40-square-foot space for glow sign at the

entrance, with a frontage of 12 feet or more. The studio must be at least 12x8.5 feet, on the ground floor, with an entrance to the main road.

In-shop branding will be provided by Rushil Décor, as also the full-sheet display laminates, fixture (cassettes), sample catalogue, and gift and promotional items.

The concept of Vir Studdio is to enable consumers to select designer laminates with different textures and made-to-order digital laminate. Delivery to consumers will be from local supplier. For details, email: franchise@rushil.com

Wood kilns from Italian specialist



There is a new supplier of kilns for drying, steaming and heat treatment of wood in India. The Italian company Termolegno, which exports to 58 countries, will display drying kilns of varying capacities – ranging from 20 cubic metres to 300 cubic metres – during DelhiWood 2019.

The drying kilns are designed to be entirely modular, can be installed and commissioned in a variety of lay-outs, and come with a wide range of optional features and functions. Termolegno's drying programmes are tested according to the types of wood: softwood, hardwood, tropical hardwood, etc.

Each type of service has been especially designed and developed by the company in order to perfectly fulfil customer requirements, as well as to meet the needs of a wide range of environmental scenarios. This makes it possible to provide products with high standards of efficiency and quality that guarantee a longer system service life.

The Italian company manufactures and exports conventional drying and pre-drying kilns, tunnel drying kilns, kilns for heat treatment of wood (according to the ISPM-15 rules), steaming chambers and combined drying-steaming chambers.

It also offers turnkey system, complete with boiler (or burner powered by gas or diesel), hydraulic system, etc.

The company's goal is to provide customers with kilns that are easy to use and enable reduction in drying costs per cubic metre. Termolegno kilns are known for higher quality and efficiency, savings on electricity and fuel costs by consuming less thermal energy. For details visit www.termolegno.com.



AK E
Cutting & better

DIAMOND TOOLING

NOW IN INDIA

we are no longer pushing
the chip from tip to tip
We are chipping.

- Jointing
- Sizing
- Rebating
- Grooving
- Blind hole drilling
- Level cutting



**DIAMOND
TOOL SERVICING
STARTED NOW IN
INDIA**

Visit us at
DELHIWOOD 2019
Hall 14 , Booth No D 416

Chip removal behind! The knife

- Extreme cutting Power
- Brilliant surfaces
- Cuts simply „everything“
- Absolutely smooth running
- Pure perfection
- Stunningly beautiful



RANGE INCLUDES:
**SAW BLADES, ROUTER BITS,
DRILL BITS,
DIAMOND PREMILLING CUTTERS,
KNIVES, INSERTS, COLLETS, ETC.**

*Total Working life also depends on quality of regrinding.

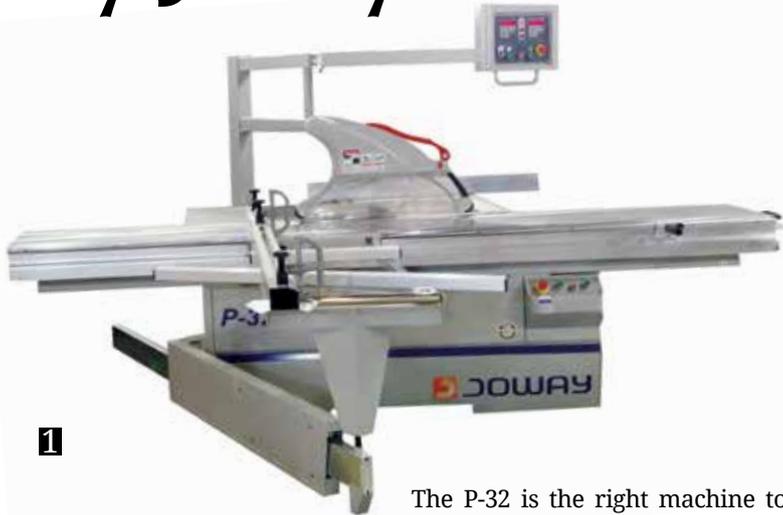


Shreepal Green Futures Pvt. Ltd., H.O.: #5, Kamala Arcade, Plot No. A 3+4, Sector-30, Opp. Rabale Railway Station, Rabale-Gothivali, Rabale (West), **New Mumbai** - 400 701, Maharashtra, INDIA.
Tel.: +91 7208016114 / 5 E mail: info@shreepal.in

Shreepal Green Futures Pvt. Ltd., #460A/460 A1, KIADB, near NTT 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

Precision cutting of wood and ply by Joway



1

1 The P-32 is a high-performance sliding table saw.

The P-32 is the right machine to use when you are sizing a 4"x8" wood piece. With its light and ergonomic aluminum-made sliding table frame, it is specially made for a stable and precise performance.

2 The JR-18 is aided by a laser device for precise trimming of plywood.

With the aim of providing a precise and smooth performance when cutting through a piece of wood, Joway has brought out P-32, a quality sliding table saw with accurate cutting.

3 The standard JR-18 machine comes with a safety guard.

The machine is equipped with high quality saw blade and efficient motors that significantly improve cutting accuracy and working condition with low vibration and low noise emissions. The safety guard, set over the saw blade, not only ensures operators' safety, but also helps to collect the dust with its vacuum system.

2



The sliding table saw comes in four different sizes (by cutting length) – 1900mm, 2600mm, 3200mm and 3800mm. A 3200-mm sliding table saw is able to cut through a piece of 5'x10' panel with ease.

Each P-32 is equipped with a 12-inch (305-mm) saw blade and its cutting height is up to 102 mm, when the saw blade is at 90° and 70 mm at 45°. A 370-mm extension saw table and a 1300-

mm cutting width device ensures smooth working.

A standard P-32 comes with a 7.5-HP main motor and 1 HP for the scoring motor. The main spindle speed has three speed modes: 3000 rpm, 4000 rpm and 5000 rpm.

To adjust the main saw height, blade tilting, scoring saw blade +/- direction, the operator has to slightly spin the hand wheels while the angle is shown by a digital display device. A mitre fence allows the operator to make an angled cut.

With the decrease in the availability of solid wood due different countries banning lumbering, more and more solid wood furniture manufacturers have started to look for an alternative options and using plywood instead.

Plywood needs precise trimming before gluing several woodworking pieces to a bigger working piece. JR-18 is an ideal machine for this and its ruggedly constructed structure allows for stable and precise trimming. Additionally, the accurate fence combined with the pressure roller system offers greater positioning assistance with smoother feeding operations



3

For longer working piece up to 2 meters, a laser device is provided for an accurate cutting and allows for a distance of up to 4 meters. In addition, for longer working pieces an extended rip fence and feeding table is also available.

In case adjustments are required to be made on the feeding speed while working, the inverter system can help alter feeding speed at 11-28 m/min.

A pneumatic rip fence device helps to save uptime and allows operators to move rip fence manually.

As operator safety is an important, standard JR-18 machine comes with a safety guard, while the choice of anti-kickback fingers is optional.



PREMIUM ITALIAN WOOD FINISHES

ICA Pidilite offers the most premium and technologically advanced range of products which include:

- Polyester Coatings
- Water based Coating for Exterior
- Coatings for Parquets
- Water and Solvent based stains
- Acrylic Coatings
- Liquid Metals
- Polyurethane Coatings
- Special Effects
- Fire retardant Coatings
- Coatings for Glass
- UV Cured Coatings

Please visit our Stall at :

DELHIWOOD

13th to 16th March, 2019
India Expo Centre & Mart
Greater Noida, India

Booth No: H09,A104

For more information
visit our Experience Centre.



ICA Application Book App
available for download on



Subscribe to
ICA Group on Youtube



PREMIUM ITALIAN WOOD FINISHES

Get in touch with us :

+91 22 61312345 • info@icapidilite.com • www.icaspa.com



1

Smart work-desk essentials from Ebco

Worksmart by Ebco is launching a wide range of power sockets and chargers for work desks and other furniture. Each of these smart electric boxes with power and data sockets is highly convenient and easy to mount and use.

1 *Ebco's smart electric boxes (slide-out, edge- and ceiling-mounted) and wireless linear and circular USB chargers and cable organisers will be among the company's highlights at DelhiWood 2019.*

These are also available with wireless mobile chargers and USB chargers, available individually and built into the furniture.

The compact and slim design electric box comes with a sliding lid that hides sockets when not in use. The unit includes wireless charger, two universal power sockets, two USB charger sockets, one telephone and one network socket.

The in-built wireless chargers for high-end smart- phones are concealed electric boxes that are ideal for any conference table, work desk or counter tops. They are available in white and black finishes.



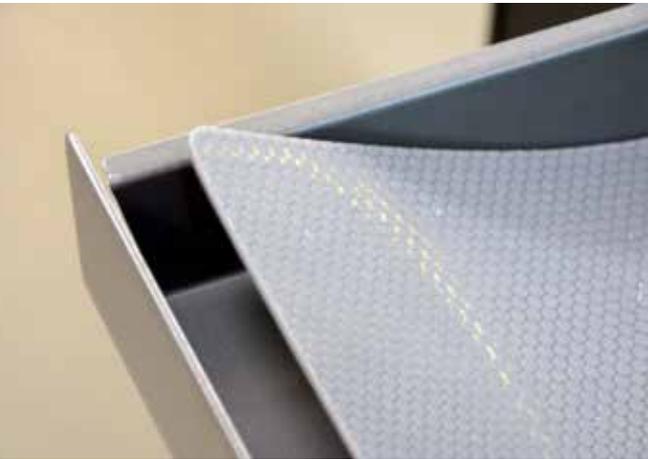
Key Features:

- Made of steel, the drawer is complete with slides
- Can be retrofitted to any existing table
- Mounting brackets ensure drawer cannot be removed
- Safety lock feature for anti-theft protection
- Optional anti-skid mat available
- Suitable for storing laptops, tablets, notebooks, smart phones
- Maximum laptop size: 390mm x 270mm x 40mm
- Weight capacity: 12 kg.

The wireless and USB chargers convert any work desk to a smart charging unit with these dual USB port chargers. They are ideal for furniture in offices, meeting rooms, intuitional and home application.

Ebco is also introducing a laptop drawer, an ideal solution for keeping belongings safe and secure at work places. This product enables the user to work with ease and in a worry-free work culture.

Thoughtfully designed, the ready-to-use ceiling mount drawer is equally suitable to use with existing as well as height adjustable desks (Ebco's SmartLifts). This lockable laptop drawer is practical and convenient alternative for clutter-free work stations.



2 The laptop drawer features an anti-skid mat, safety lock and bracket.

IMPORTED
"BOLT • NUT • SCREWS"
FOR FURNITURE →

- KNOCK DOWN
- MODULAR
- GENERAL

MAKE YOUR PRODUCTS LOOK GREAT

ADD VALUE TO YOUR PRODUCTS

FASTENERS FOR FACADE, CLADDING AND INTERIORS

STONE TIX THREADED INSERTS **NEW** COLOURED FINISHES FOR FACADING / CLADDING

BALL CLIP CONCEALED FASTENER
 REVOLUTIONARY PANEL MOUNTING SYSTEM

PRICES SLASHED

KAPASI INC.
KAPASI FASTENERS

No.83, 1st main road, New Binny Layout, (opp. Balekai Mandi), Tank bund road, Bengaluru-560023.
 E-mail: fasteners@kapasine.com Tel: 91-80-26745566, 26740233

www.furniture-screws.com

IMPORTED BOLTS, NUTS & SCREWS FOR MODULAR, KNOCK DOWN, GENERAL FURNITURE

New planer/ moulder from Wood-Mizer



Wood-Mizer has brought personal and portable sawmills to people who want the freedom of sawing their own lumber for projects or profits. Engineered for performance and quality, it offers a complete line of sawmills to operators.

These solutions include stationary or portable, manual or hydraulic, standard or wide, monorail or twin rail machines.

The company has released the MP360 four-sided planer/moulder, a high-production, large capacity machine engineered for professional workshops. With a larger capacity and higher hourly production levels than the MP260, the MP360 planes and moulds boards and beams on all four sides in a single

pass, into a variety of professionally finished products and delivers full flexibility and high capacity.

Its notable features include:

- 4-sided planing and profiling in one pass
- 4-sid cutting capacity (350 mm wide x 160 mm high)
- Larger 1-side and 2-side planing/moulding

Wood-Mizer's reputation as a worldwide manufacturer and supplier of narrow band sawmills is now expanding as it now offers a full range of equipment that can seamlessly convert logs into timber and finally into finished wood products.

Prime teak from South Sudan



Vanpro is a marketing and a trading company based out of Delhi. It represents and markets timber from some of the prestigious mills in the forestry sector.

Working closely with end users and suppliers, to maximise value for all the stakeholders, the company's transparent work culture ensures that it recommends suitable grades to buyers at the most competitive prices.

Vanpro currently markets and sells teak, steam Beech, Pine and MDF. The products are available with FSC certification as well.

At DelhiWood 2019, Vanpro is partnering with Equatoria Teak Company (ETC), South Sudan's leading sustainable forestry company.

Founded in 2006, ETC currently manages five teak concessions in Gbudue State (formerly Western Equatoria State) totalling 1,700 hectares of planted teak, and over 18,000 hectares of concession area.

ETC plants and sustainably harvests *Tectona grandis*, the highest quality plantation teak outside Myanmar. The average tree age at harvesting is 50 years, producing a fine grain, high density, well coloured timber suitable for all applications.

The teak is sold both regionally and internationally for indoor and outdoor applications (www.vanproimpex.in).

Get complete peace of mind. Instantly!

With your valuables and documents safe and secure!



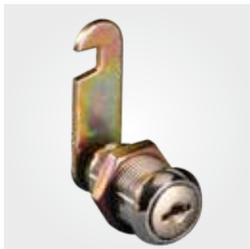
Visit us at:
DEHI
WOOD
13th to 16th March, 2019
HALL H09, B202.
India Expo Center and Mart,
Greater Noida

Combination Lock

Ebco Furniture Locks



4 Digit -
Combination Lock



Cam Lock
Threaded



Glass Door Lock-
Single



Sliding Door Lock-
Steel Cabinet



Sliding Wardrobe
Lock

- Widest range – Over 250 variations of Basic, Premium, Speciality and Combination Locks
- For every application - Wood, Glass and Metal furniture
- Various levels of security – Regular, Wave, Dimpled Keys & Numeric
- Options of Master Key, Core Removal System, Set Locks, Folding and Flip Keys

Contact us at 022-67837777 or info@ebco.in to make an appointment with our team.

National Display Centres: Ahmedabad: 079-26880478, Bangalore: 080-25503372, Chennai: 044-24611937, Cochin: 0484-2333394, Coimbatore: 0422-2548316, Delhi: 011-49843306, Guwahati: 09435111409, Hyderabad: 040-23557252, Indore: 0731-4040800, Jaipur: 0141-2390773, Kolkata: 033-46034171/72, Lucknow: 09506464066, Mumbai: 022-67837700, Nagpur: 0712-2221637, Pune: 020-26456787, Raipur: 07773014904, Surat: 0261-2234677



Simplifying lives.



www.ebco.in



Yow Cherng is back with tenoners, mortisers



1

1 The round-end tenoner, YRT-115.

India is now one of the fastest growing markets with many local manufacturing activities being launched recently. Supported by the Indian government's 'Make in India' agenda, local furniture manufacturing has also become an industry with high potential.

As one of the earliest machinery companies that has been supporting Indian manufacturers, Yow Cherng feedback shares also a strong demand is seen for Taiwan-made machinery for better

quality and stable machining request.

Yow Cherng entered the India market nearly 20 years ago, supplying specialised machinery for chairs, door frames, and clothes hangers.

The standard machinery from Yow Cherng has been its round-end tenoner (YRT-115) and oscillation mortise (YOM-120), the best options for tenoning and mortising.

The YRT-115 is designed with two work tables for efficient operations. It produces various tenons: straight, miter, dovetail and T-shaped. The YOM-120 is built with two work tables on both left and right side of the machine, giving high production capacity.

Besides, Yow Cherng always caters to its clients' customising needs and is capable of building for customised depth of up to 90 mm.

From the economic to the advanced CNC models, all Yow Cherng machines are made in Taiwan to ensure precision accuracy in tenoning and mortising performance.

Yow Cherng has been partnering with Bengaluru-based WoodTech Consultants since the very beginning, ensuring strong after-sale local support.

For workshop owners who seek to build and expand a strong business base, Yow Cherng is here and ready to support its clients. See its new products at the WoodTech booth during DelhiWood, or log on to www.yowcherng.com.tw.

2

2 Oscillation mortise, YOM-120.



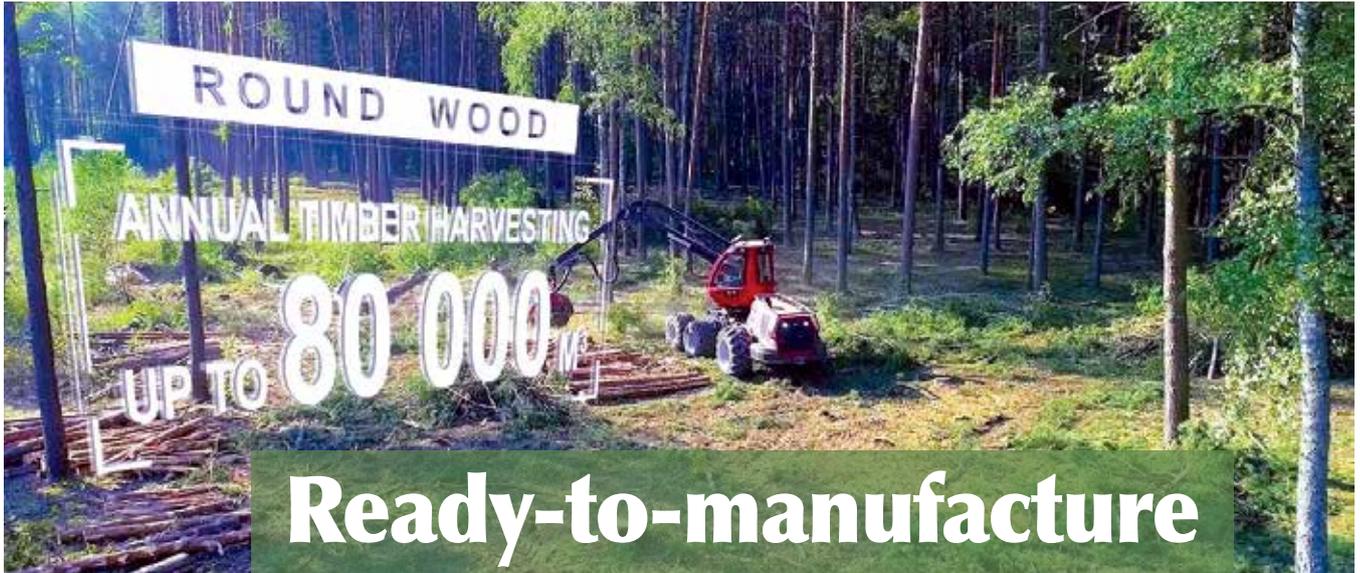


● 1002 - Cream ● 9012 - Antique Gold

passionate about
panels

- ✓ Ready to Use Panels
- ✓ Available on MDF, Ply*, & Birch Ply*
- ✓ High Gloss, Supermatt, & Textured Finishes
- ✓ Matching Edgebands Available
- ✓ More Than 500 Products To Choose From

Pan India Distribution Network. Distributors Solicited for Unrepresented Area



Ready-to-manufacture panels from Ukraine

Slovyanski Shpalery-KFTP is a private joint-stock company and reliable manufacturer and supplier of sawn timber and edge-glued panels from Chernihiv region in Ukraine.

Since its inception in 2016, it has been manufacturing and exporting up to 6,000 cubic metres of furniture panels, solid beams and board for furniture production, under the brand name Slav Forest.

Furniture panels are a semi-finished product, which can be used as a base for many wooden articles. As it is made of natural materials, all items made of it are durable, environmentally friendly and of a very high quality.

Furniture panels are a universal solution for furniture and interior. The Ukrainian company produces both solid and finger-jointed pine furniture panels of different sizes and with different surface textures.

Solid furniture panels are manufactured of high quality timber by lamella edge gluing with specific glue. A characteristic feature of

the manufacturing process is that solid long lamellas are jointed only on edges to get a panel of necessary width.

Solid panels look expensive and stylish, being a perfect option for stairs and furniture manufacture.

Finger jointed panels are produced by jointing lamellas both on edges and on ends, which allows us to get large size panels. Such panels are mainly used for flat surfaces of kitchens, furniture, large stair components and wall panels.

Modern technology

The company's wood processing plant is equipped with a MS multiply saw and auxiliary Serra band-saws. The plant also has a Proliant drying unit with a gross production capacity of 2,000 cubic metres. The furniture board production unit uses Weinig equipment.

The company has an annual production capacity of 80,000 cubic metres of round wood; and more than 1,00,000 tonnes of sawn timber production.

It also produces up to 10,000 cubic metres of fuel pellets, which are 100% genuine and are produced of wood processing residues. The pellets are made only of unprocessed timber, so they do not contain any binding agents.

After drying and grinding softwood chips pass only through a press, resulting in a high quality environment-friendly product.

The company is certified according to FSC standards. (www.slavforest.com.ua).



Tierisch
authentisch:
Feel inspired
to create.



Visit us at
DELHIWOOD 2019
Hall 11 , Booth No J 905

Surface stability | Easy to shape | Anti-fingerprint | Scratch-resistant | No "stop" feeling | Easy to clean

SOFT SHELL, HARD CORE. RENOLIT PET laminate for soft, resistant surfaces.

Surfaces with RENOLIT PET laminate look like new even after heavy use. This makes the film the perfect solution for the private kitchen, the caravan and all furniture fronts that have to put up with extra wear and tear. RENOLIT PET laminate continues looking great for a long time even under extreme conditions, thanks to the material's high level of resistance. Speaking of kitchens: A good kitchen front also has to withstand some wear and tear. It should also feature good surface durability and scratch-resistance. Abrasion-resistant RENOLIT PET laminate optimally meets these requirements.

vinyl^{plus}



Rely on it.



Shreepal Green Futures Pvt. Ltd., H.O.: #5, Kamala Arcade, Plot No. A 3+4, Sector-30, Opp. Rabale Railway Station, Rabale-Gothivali, Rabale (West), **New Mumbai** - 400 701, Maharashtra, INDIA.
Tel: +91 7208016114 / 5 E mail: info@shreepal.in

Shreepal Green Futures Pvt. Ltd., #460A/460 A1, KIADB, near NTTFCircle, 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

Sweden has sustainable sawn timber



Sawn timber from Sweden consists mainly of two conifer species: pine (*Pinus sylvestris*) and spruce (*Picea abies*). Swedish timber is of a high quality and has a medium to coarse texture with uniform and straight grain.

Swedish sawmills produce a wide selection of different qualities of sawn and planed pine and spruce; they can also provide specially ordered grades of timber, and timber with special dimensions.

Nearly all sawn timber from Sweden is kiln-dried: 50% is dried in compartment kilns and 50% in progressive kilns. The target moisture content is typically 16% for planed timber and 18% for sawn timber.

The Swedish sawmill industry can deliver wooden windows, doors, panels and floorboards in many different styles and

dimensions, to suit all architectural styles.

Pressure-treated wood for the outdoors is another use for Swedish pine, finding uses in construction, landscaping, marine environments, railways and garden products.

Glulam (glue-laminated timber) opens up many architectural opportunities. In relation to its weight, glulam is one of the strongest construction materials available. Sweden already has a long tradition of building one and two-storey buildings in wood.

Sweden is the third-largest exporter of certified sawn timber in the world. Swedish forestry has a long tradition of sustainability and recognises that economic, social and biological sustainability are all cornerstones of sustainable forestry.

Many more new launches and updates

Here are many more exhibitors at DelhiWood 2019 that have exciting new machines, material and technology solutions for visitors to the show:

Action Tesa: Plain and pre-laminated, high-density, high moisture resistant doors.

Altendorf: The legendary panel saw maker will launch Hebrock edge banding machine in India. The latest version of Magis panel optimisation and navigation software will also be on display.

AM2PM: Imported kitchen doors in new finishes and colours.

Aristo India: Latest European trends in wardrobe solutions.

Cedar Décor: Updated range of 1-mm Romania, IPL, Dixon and Aroma laminates.

Chopal Timber Co.: PLC-controlled, automatic DD saw and panel jointer.

Delux Udyog: Rod sanding machine for wood rounds, rods & sticks, stainless steel rods and pipes. ▶

Caple raises the bar of service standard in India



Echon: WPC boards, doors, door frames, bendable laminates and WPC wall panels.

Felder: Top-end range of industrial edge banders capable of 24x7 production.

Ferro Tiger: Slim Lift for handling loads for beam saw machines.

JJ Wala: 100% Keuring mat and platform ply.

Kanefusa: Super Board Pro-3 circular saw blade.

Kaymo: New tools for home and onsite projects.

Praveedh Décor: Nivesa range of PP/PETG/PVC foils laminated on plywood.

Precitec Saw Industries: Precision carbide-tipped circular saw blades.

Relwood: Waterproof, UV-resistant Relwood UPB sheet with zero VOC emissions and

Relwood profiles for decking, cladding and roofing.

Richwood: Launch of Richfill “calibrated filler” for plywood industries.

Royal Timber Store: Decorative hardwood from Europe and America and decorative softwood from America.

Skydecor: New laminates folder from the 2019 edition.

Superbond: Wood glues, hot-melt and super-melt glue sticks.

Swedish Wood: Swedish sawn wood species, Pine and Spruce.

Vijay Engineering Corp: Automatic vacuum cleaner with triple filter.

Windsol: Timber seasoning kiln, plant for wooden packaging material, timber steel body dryer.

Tubular boards for doors industry



Sauerland Spanplatten, the world's largest producer of infill boards for the door industry, offers its rich experiences for production of high performance doors using its tubular and solid boards.

The product range includes fire cores acoustical cores. These boards are produced in various thicknesses (18 mm to 70 mm) and are eco-friendly, E1, PEFC- and FSC-certified.

They are produced from recycled residues sourced from saw mills. Sauerland infill board are in use in the door industry for over 65 years in 78 countries.

These boards offers sound insulation, full support for safe fire rated door constructions.

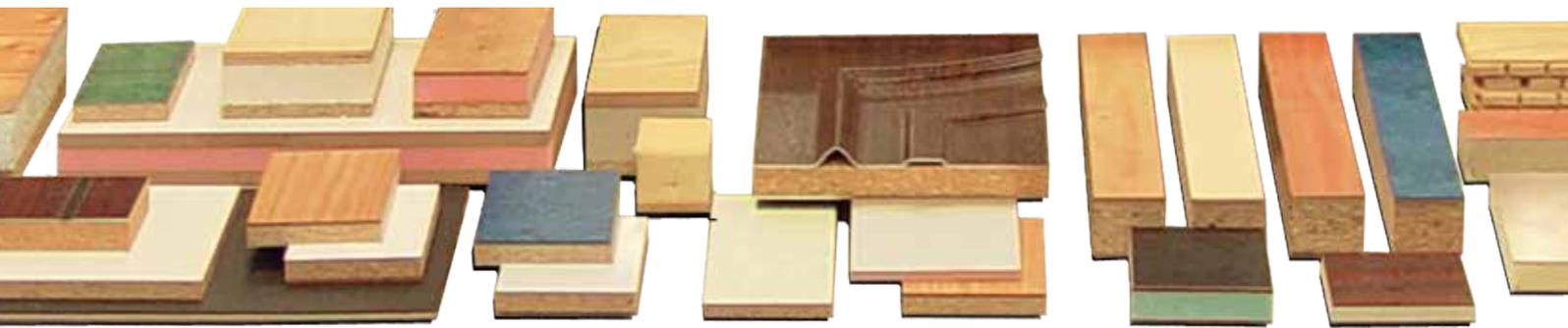
They have a thickness tolerance of +/-0.1mm and zero thickness swelling in board, preventing telegraphing defect.

The tubular boards come in 30-minute fire rating, solid boards with 60-minute fire rating, and sound insulation of 35 dB to 42 dB. These can be used in cinema halls, recording rooms, meeting halls and hospitality industry.

Sauerland Spanplatten is represented in India by the Pune-based Sleek Boards Marketing Services.

DE·HI
WOOD

13 - 16 March 2019
India Expo Centre and Mart,
Greater Noida, India



Flat lamination SYSTEMS

www.barberan.com



WOODTECH
CONSULTANTS PVT. LTD.
BARBERÁN Authorized Dealer

TB BARBERÁN
Solutions since 1929



1

Light wood frame construction gains traction

Canadian Wood will showcase light wood frame (LWF) house construction at Delhiwood 2019. It is the assembly of dimensional lumber or engineered wood that is regularly spaced and fastened together with nails to create floor, wall and roof assemblies.

1 FII has already organised training courses in Mysuru and Delhi for hands-on training and knowledge-sharing.

The structural parts are of wood, or are dependent on a wooden frame for support, and the structure can be pre-fabricated or built on site. It is one of the most common forms of construction in North America.

In residential construction, mainly light structural lumber is used, it is milled from conifers (softwood trees) such as Spruce, Pine and Fir (SPF) that are sawn and machine-planed to standard dimensions (2x4 inches, 2x6 inches, 2x8 inches, etc.)

2 LWF construction is light and allows quick construction with no heavy tools or equipment.

LWF construction is light, as the name suggests, and allows quick construction with no heavy tools or equipment. It is able to adapt itself to any geometric shape, and can be clad with a variety of materials. There is a huge variety of products and systems tailored to this type of construction.

FII India (Canadian Wood), a crown agency of the government of British Columbia, Canada, has a mandate to promote B.C. forest products in offshore markets, first displayed the North American style home, constructed using the LWF method at DelhiWood in 2017.

The exhibit was a walkthrough installation with unfinished walls and ceilings, topped by an exposed roof structure. The partial-finish theme allowed visitors to closely inspect and understand the unique construction and weather-proofing on display.

There was a discreet inclusion of services and insulation, the prefabricated style, as well as the interface of structural materials with interior fit-out and exterior claddings.

FII is aware that wooden houses are gaining popularity in India for resorts at beach locations and hill stations, and for farm houses and countryside homes with infrastructure and access challenges, because these wooden houses are either de-mountable or portable, and constructed in a different style.



2

The predominant method was prefabricated tongue-and-groove interlocking boards. Hence it was encouraging to see the same manufacturers who preferred this method expressing interest in LWF construction.

In order to provide the relevant training and knowledge sharing that is necessary for interested parties to construct effectively without compromising on industry standards, FII organised its first training courses in India in Mysuru and in Delhi.

The course is hands-on training, with all participants contributing to the cutting, nailing, measuring and construction of the foundation and the floor, wall and roof framing, and bracing, using a variety of quality tools.

The resulting house consists of prefabricated stud wall sections over two levels with flooring and sheathing, three windows, an inside partition wall and door opening, roof trusses with eaves and fascia, and a fully sheathed roof.

With the addition of an entry staircase, the house is considered complete to lockup stage. For details, write to info@canadianwood.in.

Egger takes big strides in India



Products from Egger, the Austrian wood-based materials manufacturer, are found in many areas of private and public life, including kitchens, bathrooms, bedrooms, offices, hotels and shops.

Egger is a full-range supplier for the furniture, interior design, wood construction and wood-based flooring (laminated, cork and design flooring) industries.

The Egger Group, with its head office in St. Johann in Tirol, is a leading, family-owned company that manufactures in 18 locations worldwide. In the 2017-18 financial year, the group achieved a consolidated turnover of around Euro 2.68 billion.

Egger also produces timber and planed wood in its own sawmill in Brilon. In the past business year, the production quantity for raw boards, including timber, amounted to 8.5 million cubic metres.

Following the guiding principle, "More from wood", the international exporter offers a comprehensive product range of core boards made of wood-based materials (chipboards, OSB boards and MDF boards) under the Egger umbrella brand. Most of the base materials are upgraded with trendy decors and surfaces.

Its best-selling product offered in India range from Perfect Sense matt MDF core boards and Eurodekor Feelwood Woodgrain MFC to Eurodekor Materials MFC and matching ABS edgings.

Egger is represented in North India by Gurugram-based, award-winning Decora Kitchen Interiors Pvt Ltd (www.decora.in), in the West by Mumbai-based Asian Prelam Industries (www.asianprelam.com), and by Bengaluru-based Radheshyam Laminates and Decors.

JOWAY

Create Your New Horizon for Top Quality!



JUST KEEP CUTTING AND NEVER LOOK BACK

This is a tough request when you have to both cut the woods while still worrying about cutting results. Now it's easy. Use JOWAY sliding table saw and straight line rip saw to ensure all cuts are flat as silk.



JR-18 STRAIGHT LINE RIP SAW



P-32 SLIDING TABLE SAW

JOWAY'S QUALITY INSURANCE:

To protect our customers from getting low quality counterfeit machines through unrecognized sources recently, Joway now issues an official certificate with machine serial number and stamped on every Joway machines to ensure you receive genuine Joway machines.



JOWAY MACHINERY CO., LTD.

E-mail: joway@jo-way.com www.jo-way.com

LOCAL DEALER

Sanjay Woodtech E-mail: sanjaywoodtech@gmail.com

Tel: +91 941 4039 793 / 98 2921 2261

www.sanjaywoodtech.com

Kuper offers top-line joint bonding



The Kuper FLI 1000, the bestseller from the wide range of Kuper gluing machines, combines innovation and proven technology.

The efficient heating system with simultaneous pressure, the precise veneer feed and the intelligent energy management make the machine the first choice for those who work with high-quality veneer.

When processing pre-glued veneers, an increase in throughput speed is achieved.

Easy to operate even with gloves, the

insensitive control panel shows all parameters at a glance. This reduces the make-ready time of the machine to a minimum.

No matter which veneer thickness is used, the integrated gluing unit guarantees an exact glue application.

With the optionally available compact cooling, which significantly extends the pot life of the glue, as well as additional packages for processing micro and thick veneers, a factory can configure the machine according to its requirements.

Morbidelli 'all-in-one' CNC technology



1 *The Morbidelli M100 optimises space within the factory with its ProSpace solution; and boasts of a 5-axes direct-driven spindle head.*

The highly modular Morbidelli M100 CNC machining centre from SCM provides answers to all problems associated with woodworking and with advanced materials processing.

Just a few clicks to design and manufacture pieces of any shape, the machine is run by the Suite Maestro, which has specific modules for every production cycle.



Unique on the market in having an unrivalled price-performance ratio, it can be configured according to the customer's needs and investment plan.

It optimises space within the factory, thanks to the ProSpace solution. Maximum ergonomic load and the absence of perimetral protections allow access to the work table from all sides of the machine.

Condensation and metallic abrasion is excluded. The extremely narrow heating zone protects sensitive veneers and significantly reduces veneer shrinkage.

It offers unmatched finishing thanks to the JQX (Just Quality eXtreme) 5-axes direct-driven spindle head, which ensures the total absence of vibrations even with huge material removal at high speed and with the high-

performance drilling heads with RO.AX (Roto-axial spindle technology) spindles and rotation speed of up to 8,000 rpm.

There is a 60% time saving in drilling cycles thanks to the rapid working/cycle time and devices that reduce the idle times. There are no downtimes for setup operations with the TV Flexmatic work table, and less than 15 inches for the tool change with the Fast14 tool changer.

The machine can cope with all types of materials: from wood to plastic, from panel to the single element, from a kitchen door to a window, the configured solution for all factory needs and investment plans. The unit can accommodate up to four machining units, including a device for inserting dowels using pearl glue.

Please visit us
@ H09 C303
at Delhi Wood
2019

WOOD
INDUSTRY

Bond | Protect | Beautify

High Viscous

Liquid

Powder

SAMES KREMLIN Pvt. Ltd.
Gat No. 634, Kothari House, Opp. Wagheshwar
Palace, Pune - Nagar Road, Wagholi, Pune-412 207. INDIA

info@exel-in.com
www.sames-kremlin.com

+91 (020) 3047 2700/01

Apply your Skills

WOODTECH

GIVING NEW DIMENSIONS TO WOOD

PANEL PROCESSING MACHINERY VALUE FOR MONEY PRODUCTS FOR ASSURED PROFITS



HOLYTEK
INDIA

COSTA
LEVIGATRICE

CHAMP
FOND

LMG
LEADERMAC

PRODUCT RANGE:

Machinery for Solid and Panel / Processing / Design / Maintenance
Projects / Consultancy / Finishing Lines / KILNS / Spares / Service

WOODTECH

GIVING NEW DIMENSIONS TO WOOD

SOLID WOOD PROCESSING MACHINERY

WIDE CHOICE ON THE RIGHT MACHINERY



VISIT US AT
DEHI
WOOD

Booth No. H14 E518

BEST PRODUCT WITH
OPTIMUM QUALITY AND
COMPETITIVE PRICE

OVER 8000 INSTALLATIONS OF
MACHINERY IN BOTH SOLID WOOD
AND PANEL PROCESSING SECTORS

OUR SERVICE CENTERS IN CHENNAI,
INDORE, MUMBAI, NEW DELHI AND
JAIPUR, JODHPUR, HYDERABAD, KERALA

YOW CHERNG
Machinery Co., Ltd.

MANDI
ANDERSON GROUP

INTOREX
MACHINERY

PADE

POWERMAX
MACHINERY CO.

INNOVATOR
INNOVATOR MACHINERY CO., LTD.

ARTIGLIO

RIBEX
VACUUM TECHNOLOGY

BARBERÁN
MACHINERY

ALTENDORF

KBT

WOODTECH CONSULTANTS PVT. LTD.

#31/2, Nadakerappa Industrial Estate, Andrahalli Main Road, Near Peenya II Stage, Vishwanedam Post,
Bangalore - 560 091. Tel: +91-80-2836 4584/85, Fax: +91-80-2836-1166, Email: info@woodtech.in

Send your valued enquiries to: INFO@WOODTECH.IN Also visit us on WWW.WOODTECH.IN



6-side drilling machine from WoodTech

The Rapid Drill 612 is a 6-sides drilling machine with two work stations. A single person can operate this machine for small workloads. It can connect with a variety of disassemble software.

It is mainly used for six sides holes; but with its spindle it can do grooving and routing too.

It recognises work processing information by scan: it is thus intelligent and efficient. It is PC-controlled with CAD/CAM. DXF/MPR/XML data can be imported directly for more convenient operation.

It has a double gripper rail, the maximum speeding reaching 130 per minute. With intelligent detection of hole position the gripper can travel more than 4.4 metres and can get large board one time.

It has an air floating table and pressure beam to avoid board scratches. It has an optional

feeding mode: front-in and out, or front-in and back-out.

The LSJ-1320 wire brushing machine is designed for archaize floor, furniture, table-board and handicrafts. Processed by this machine, the panel surface is skid-free, stereoscopic and beautiful.

Its conveyor belt / drawing roller/ polishing roller use independent motor and the feeding use frequency. The drawing and polishing rollers can be easily removed or re-arranged.

The disc brushes have swing devices, and each group of disc brushes can move independently up and down. Depending on different board textures, the machine can deploy different numbers of disc brush, drawing and polishing rollers.

The machine and its setup can be customised to meet client's requirement and expectations.



ARISTO[®]

Love at First Slide

India's No 1
Floor-to-Ceiling
Sliding Wardrobes
& Doors



DEHI
WOOD

Exhibition
13-16 March
Hall10 - E501

Contact us for dealership enquiries

Andhra Pradesh | Goa | Gujarat | Karnataka
Kerala | Maharashtra | New Delhi | Rajasthan
Tamilnadu | Telangana | West Bengal | Punjab

+91 8880 160 160

www.aristo-india.com | sales@aristo-india.com



Renolit PET laminate for soft, resistant surfaces

Surfaces with Renolit PET laminate look like new even after heavy use. This makes the film the perfect solution for the private kitchen, the caravan and all furniture fronts that have to put up with extra wear and tear.

Renolit PET laminate continues looking great for a long time, even under extreme conditions, thanks to the material's high level of resistance. Speaking of kitchens: A good kitchen front also has to withstand some wear and tear. It should also feature good surface durability and scratch-resistance. Abrasion-resistant Renolit PET laminate optimally meets these requirements.

The film impresses with its outstanding surface smoothness and pleasant feel, without

any stop feeling. The value of a good surface is particularly evident when it's time to clean up again after cooking up a storm.

Thanks to Renolit's anti-fingerprint technology, it also prevents unsightly finger smudges. Easy handling rounds off the positive properties of the new PET laminate. The films are thermoformable, and both the 2D and the 3D versions are easy to process.

Renolit PET laminate is now available as a 2D film from stock in 12 colours in both high gloss and super matt. The 3D variant will be available in India from mid-2019.

Some of its major advantages are: Surface stability, easy to shape, anti-fingerprint, scratch-resistant, and easy to clean.



freud.

Your productive partner

Visit Delhiwood Exhibition,
Stall No. H14, Booth No. H816,
13th to 16th March 2019.

India Expo Centre & Mart,
Greater Noida, India.

Bosch Limited, Power Tool Division,
PA-AT Complex, Hosur Road, Adugodi, Bangalore - 560030
Email: sujayvedavyasa@in.bosch.com / c.kiran@in.bosch.com
Mobile: 9916335210 / 9591988173

Largest palette of European surfaces in India



From being the leading manufacturer of calibrated plywood to the modular furniture and interior sectors, Aryamman Interior Solutions has expanded its vision and offer high-end, hand-picked European surfaces.

In order to enhance the aesthetics of furniture Aryamman offers different elements required for surfaces: synchronized textured boards, ultra-high-gloss and soft-touch, anti-finger print super matte boards.

Using nano technology surfaces with thermal healing properties 1.4-mm anti-scratch, high-gloss acrylic sheets offered by the company is complemented by 100% matching edges to provide a seamless look to furniture.

These surfaces are from all across Europe to make high-end kitchens, wardrobes, beds, vanities, side units, consoles and state-of-the-art contemporary furniture.

Aryamman intends to launch 2019-2020 kitchen tops with integrated sinks and surfaces which give a tactile feel of stone and marble, all again hand-picked from Europe.

AKE re-invents sawing with Cutting 2.0



AKE is a family-run, medium-sized company that, for 50 years, has been one of the leading manufacturers of circular saw blades and cutting tools worldwide. It is the revolutionary approach of AKE to the mode of cutting that makes Cutting 2.0 so very special.

All relevant products, whether the SuperSilent and the Panel Saw 2.0 or the cutting tools Z3 and Harmony, have one thing in common:

The applied cutting methods are completely different.

To this end the tool design has been revised fundamentally in order to avoid multiple chipping. In doing so AKE has always one end in mind: creating unique advantages for its customers.

Among its major products sold in India are the SuperSilent, the DP jointing-rebating cutter Harmony 2.0, the DP shank cutter Z3, and the panel sizing saw blade 2.0.

Among AKE's advantages are tear-free edges on the top coating; universal processing of wood and wood-based materials, planning cut quality with solid wood, and they are 75% quieter than standard circular saw blades.

These tools are extremely economical by means of one-time re-sharpening because of their advanced tooth geometry. They are ideally suitable for zero-joint gaps and laser edge banding technology. AKE has started servicing diamond tools in India. It is represented by the Mumbai-based Shreepal Impex.

100% made in italy



At the beginning, there is always an idea, an intuition that flashes through one's mind and originates the part to be produced. Our innovative thrust owes its energy to the strength and the originality of our ideas, which are the driving force of every development.

Our ideas become carefully defined projects, which take into account the peculiar production requirements as well as the need to customize the parts with significant elements and details.

The most appropriate, effective solutions are our targets. They must originate from a creative idea and result in a well-structured project in order to become an essential part, an item complying with the trends of the market and the industrialization requirements.

IDEA PROJECT SOLUTION

Legs and Clips



Doors



Handle Profiles



GOLA Profiles



50,000 CABINETS STANDING OVER 10 YEARS AS TESTIMONY

PRODUCT RANGE FOR KITCHEN

- PLINTHS
- TABLE LEGS
- LEGS AND CLIPS
- UNDER SINK TRAYS
- NON-SLIP MATS
- DOORS
- HANDLES
- GOLA PROFILES
- TIE PROFILES



PLATINUM
BUSINESS (I) PVT. LTD.

PLATINUM BUSINESS INDIA PVT LTD.

X-9, Block-A, Near Hotel Shine, MIDC, Hingna
Nagpur, 440016, Maharashtra, India

Tel.: North/Central: 8007776539

West: 8007644991

South: 9742220172

Website: www.fopitaly.com; www.opes.it;
www.maxfire.it; www.inoxa.it

Of form, function and fantasy

Mysuru-based Bram Woodcrafting Studio (BWS) – which featured in the cover story in *WoodNews* of Dec-Jan 2018 – has entered the market with a splash.

Mr Nataraj Kalyani, owner of Wood & Metal, a home décor store, came together with BWS to launch their new venture, The Mallet, a contemporary and bespoke solid wood furniture design studio in Bengaluru.

The Mallet is the broad umbrella of a bouquet of home furniture that includes the Stump collection, Wing collection, Lucerna collection, and the Bratus collection. Also on display were pieces of from the Ratio collection.

The furniture, hewn from nature by master craftsmen, speaks the language of international contemporary design. Each carefully curated form is imbued with sophistication, stability and harmony and targets the new-age connoisseur.

“The Mallet stands for responsible luxury. We believe in maintaining balance and unity in all things including in our design. We source all material responsibly and believe firmly in respecting our environment,” asserts Bram.

Each piece from the collections tells a story

that balances form and fantasy, solidity and sophistication, tradition with transformation, and reflects the coming together of traditional woodworking craftsmanship with a modern sensibility and modern design aesthetic.

The result is a range of unique customised furniture for the Indian market with an underlying grain of innovative design and impeccable skill that combines international design with local materials.

Made from Ash, white Oak and Beech, the range includes air-shelves, sofas, coffee tables, study and work desks, chairs, easy chairs, benches, centre tables and beds that sometimes tastefully incorporates stainless steel, fabric and upholstery, cane and blackened metal that eventually give the pieces the classic but contemporary look. What is interesting is that each piece also retains its functionality while retains in head-turning ‘chic’ look.

Given the verve, enthusiasm and vitality this partnership (between Metal & Wood and BWS) displays, discerning architects and interior designers can look forward to several interesting collections to choose from in the coming days.

1 *The Mallet Collection: balancing traditional craftsmanship with modern design aesthetic.*



– Picture: Orka.photography.

Brand-new challenger to Global Brands!

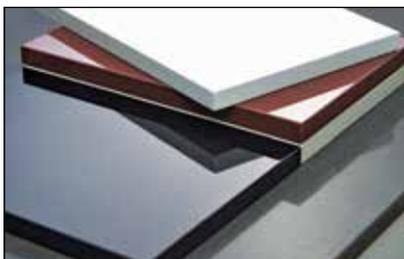
INTRODUCING

OptimusTM From JAI

OptiEdge 6.5
Highspeed Auto Edge Bander



Quality, precision & reliability.
Perfected to the highest standard possible



- High-speed machine to enhance the productivity
- Precision, safety, stability & utility redefined for the Indian industry
- A complete package of overall excellence, with great performance and easy to operate system

All the **features, functions & fulfillment** you expect from a premium **Edge Bander** ...and more!

Launching @ **DE·HI**
WOOD 2019

Globally Compatible **Optimus** from **Jai** For now. Forever.

Jai Industries Gujarat, India
optimus@JAIindustries.com • www.JAIindustries.com



Moving beyond mobility to enter the smart lane

Globally, technology is changing at a rapid pace and major global conglomerates are realising that conventional wisdom and strategies are just not enough to remain ahead of the curve.

Companies are, therefore, changing their outlook and perspective and working at breakneck speed to evolve; especially to survive the onslaught of disruptive technologies that are entering and changing the eco-space in various areas.

One such company is the German multinational, Bosch, which set up its Indian manufacturing operations in 1951. Over the years it has grown exponentially and today has 18 manufacturing sites, and seven

development and application centres in the country.

As a leading supplier of technology and services Bosch is now changing its conventional business areas to digital by transforming and entering into areas of mobility solutions, industrial technology, consumer goods, and energy and building technology.

Bosch's initiatives in India – which include connected industry, energy efficiency and smart homes – are leading it into new verticals with digital solutions at the core. It has, in India, the largest development centre outside Germany, set up specifically for end-to-end engineering and technology solutions.

1 Bosch's 'Go' is a smart cordless screwdriver with mobile charger.

High Holding Capacity Vacuum Cups for CNC machines to improve Productivity



BETTER VACUUM CUPS INC.

- Patented Design. Made from Special Material after extensive R & D.
- No need to replace Top Skin even if it gets damaged – **Big Saving in Operating Cost.**
- 30% more holding power enabling use of higher feed speed – **Higher Productivity**
- Variety of Sizes available to suit holding of all sizes/shapes of workpieces – **Flexibility**
- Modular design – **Very Easy Maintenance**
- Practically Unbreakable – **10 times more life than normal cups**
- **Suitable for all CNC make & models (Homag, Biesse, Felder, SCM etc.)**



Visit us at
DELHIWOOD 2019
Hall 14 , Booth No D 416

Shreepal Trade Impex, H.O.: #5, Kamala Arcade, Plot No. A 3+4, Sector-30, Opp. Rabale Railway Station, Rabale-Gothivali, Rabale (West), New Mumbai - 400 701, Maharashtra, INDIA. Tel: +91 7208016114 / 5 E mail: info@shreepal.in **Bengaluru:** +91 80 43715154 / 55 | **Haryana:** +91 80762 29237

ENERGY EFFICIENT DRYER



www.hrindus.com

PAPER IMPREGNATION PLANTS

H.äar
H.R. Industries





Digital power tools

“Our business is in a process of profound transformation from a hardware focus to models that focus more on services and data. We have the capability to develop green-field technology that can power industries in the new age,” said Mr Soumitra Bhattacharya, Managing Director and President of the Bosch Group in India, at the second edition of its daylong event “Beyond Mobility” held on November 20, 2018 at its Corporate Office in Bangalore.

One of the areas of focus has been power tools that was set up in 1993 and established as a brand in 2005. Today, it provides affordable and localized solutions for the Indian market and helps in improving working conditions, performance and businesses of tradesmen, contractors, carpenters, artisans and other industrial and institutional customers with its state-of-the-art heavy duty power tools and accessories.

Innovative cordless technology, connected power tools and connected work sites ultimately benefit end customers. With other new business models – such as rental power tools and digital services for customer support, channel partners and sales force – the company is boosting the construction industry’s growth and employment.

Tool management

Aimed at evolving from conventional to digital, Bosch’s cordless technology, connected power tools and connected work sites

ultimately benefit the end customers. Key industries that the company is focusing on include construction, fabrication, woodworking, metalworking and fixing and assembling.

An advanced platform using EM solutions provides usage report, tool management record, tool inventory management, user ratings, easy book keeping, and real-time GPS tool tracking are some of the standard features.

In addition, 24x7 call centre assistance, tool rating, cloud backup, and an anti-theft remote disable tool are some of the additional features that are provided.

Bosch provides power tools that are digitally enabled to improve skills and productivity offer user convenience and affordability.

Some of the latest Bosch power tool innovations include the Bosch ‘GO’, a smart cordless screwdriver with mobile charger; the GAS 18V-1 and GAS 12-25L cordless and self-cleaning technology vacuum cleaners; the GWS 750-100 angle grinder, and GBH 180 Li cordless hammer drill, along with advanced range measuring tools, line lasers and optical levellers.

According to Mr Panish P.K., Vice President, Bosch Power Tools India & SAARC, “Bosch believes that the country has extremely skilled craftsmen who are experts in building smart cities, industrial corridors, houses, etc. With the right set of tools and innovative technologies, they can work at a much higher productive pace and earn higher wages.”

With the economy moving towards digital business and e-commerce, the company acknowledges that designing fascinating products is not enough anymore if appropriate digital tools are not used. Bosch is adopting long-term digital measures to ensure that this becomes a reality.

2 The cordless high-impact hammer drill and screw driving kit is a force-multiplier.



"7th Generation High Speed & High Quality" Spindle-less Log Peeling Machine With Log Feeder"

=== MADE IN INDIA ===



SPINDLE-LESS LOG PEELING MACHINE WITH LOG FEEDER

Model: SL-80 AL

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

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, +91-98120-21474

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

Visit us at

DE·HI
WOOD

Booth No. H12 L972

Increasingly influential platform for furniture, furnishing



The 43rd edition of CIFF (China International Furniture Fair), which will take place in Guangzhou over two phases, is divided according to product sector: the first (18-21 March 2019) is dedicated to home furnishings, outdoor and leisure furniture, home décor and home textiles

The second (28-31 March) will be for office furniture, hotel furnishings, accessories, metal furniture, and furnishings for public spaces and reception areas – as well as for materials and machinery for the furniture industry.

CIFF Guangzhou will host over 4,100 exhibitors gathered in an exhibition space extending over 7,60,000 square metres.. The theme for the 43rd edition is: 'Platform of first choice for launch of new products and trade'.

CIFF is a fair capable of continually reinventing itself, responding to the needs of exhibitors and visitors, providing the best organisational solutions, hosting the most important brands, and offering a complete exhibition experience thanks to the organisation of numerous events and seminars.

New layout

This year CIFF will be promoted with a single image that integrates the content of the entire furniture industry supply chain represented at the fair, portraying all five of the main categories with corresponding main colours and iconic furniture pieces.

There will be home furnishings, home décor and home textiles to outdoor and office furniture, to CIFM/interzum Guangzhou, a fair dedicated to components and machinery.

As many as three halls, for a total area of 90,000 square metres, will be fully devoted to high-end import furnishings, fine furniture perfectly suited to the needs of the Chinese market, always in search of a better quality of life.

Hall 1.1 will be designated the 'Design & Exclusive Custom Furniture', featuring designer, high-end, modular and customisable furniture. Pavilion 2.1 will be the Design Hall, showcasing large, high-level companies with captivating designs.

Companies offering custom furniture and smart home solutions will be spread out over Hall 6.1, 7.1, and 8.1. In furnishing accessories and textiles, Pavilion 15.2 will be dedicated to an international audience, while lighting brands are featured in Pavilion 16.2.

The exhibition layout for the second phase, devoted to the Office Show, will be further expanded and optimised. The Nanfung International Convention & Exhibition Centre, located near the Canton Fair Complex, will be used as Area E of CIFF dedicated to smart offices and support products suitable for providing intelligent solutions.

Ten important designers and 10 well-known home furnishing companies will represent various interactions within design. It will present traditional brands in an innovative way, featuring both designer brands and emerging Internet brands and focusing on green design. (www.ciff.furniture).



LET YOUR CRAFT SHINE

WITH HIKOKI POWER TOOLS FOR WOODWORKING



Product Range



Japanese technology
since 1948

HIKOKI POWER TOOLS INDIA PVT. LTD.

Plot no. 9A, 1st Phase, Peenya Industrial Area, Bengaluru - 560 058. Tel: 080-41170777, Fax: 080-41171222
E-mail: ho.mktg@hikoki-powertools.in, Website: www.hikoki-powertools.in

(Formerly known as Hitachi Koki India Private Limited)



Interzum to focus on digital printing

“Individualisation” is today’s buzzword in furniture production. Whether Industry 4.0, the latest facing materials or fabrics – in many cases they only serve one purpose: to make the end customer’s dream of a personalised home a reality.

As a source of inspiration for the design of tomorrow’s living spaces, Interzum 2019 (May 21-24) in Cologne (Germany) is the ideal launch pad from which to present new, promising innovations such as digital printing to the industry.

In Hall 3.2 edutainment area, the potential uses of digital printing will be shown in a highly practical demonstration ranging from the design concept to the finished piece of furniture – including all the important process steps required for the integration of digital printing into furniture production and interior design.

“Digital printing gives furniture manufacturers, architects and interior designers the ability to respond quickly and flexibly to customers’ needs,” explains Dr Anke Pankoke from z GmbH. The mechanical and plant engineering business from Bielefeld (Germany) will be one of the companies exhibiting at Interzum 2019 and providing content for the edutainment area as supporting partners.

The decision of the organiser, Koelnmesse, to explain the individual steps that are necessary to successfully integrate digital printing into furniture production and interior design is extremely helpful for companies.

“The recent rapid development in the operational readiness and stability of digital printing has convinced us to give this topic more space at Interzum, because the desire to use this technology is growing among our visitors,” says Mr Maik Fischer, Director of Interzum, confirming the emphasis placed on this theme.

Cologne-based Koelnmesse is the world’s top trade fair organiser for the areas of furnishing, living and lifestyle. These fairs comprehensively represent the upholstered and case furniture segment, the kitchen industry, the office furniture sector and outdoor living – as well as innovations in the furniture supply industry.



3D Variopress® – Systems

WEMHÖNER



TECHNOLOGY BEYOND SURFACES

Wemhöner 3D Variopress® systems: Designed and constructed in dialogue with our customers. Manufactured in accordance with the strictest German quality standards. Installed in our customers' facilities around the globe. Day after day, over 800 Wemhöner Variopress® systems laminate three-dimensional components. They stand for our vision of finishing in the third dimension.

Our partner in India:

NITSHAW

#003, Bhagini Regency,
PWD Main Road, B. Narayanpura,

KR Puram, Bangalore – 560 016

Karnataka, INDIA

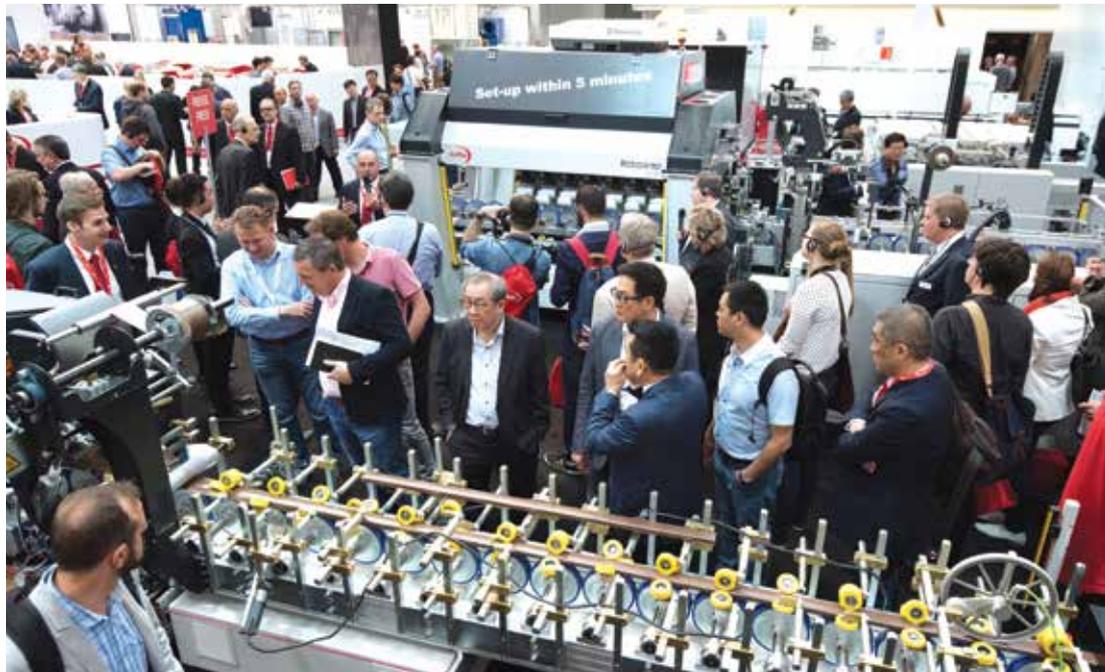
Fon +91 80 2851 0199

info@nitshaw.com

www.nitshaw.com

www.wemhoener.de

Ligna eyes smart surface solutions



The growing uptake of digital printing systems in the timber and woodworking industry is opening up promising opportunities for technology providers. The increasing compatibility between established gravure printing systems and new digital options is also having a positive influence in this context.

The theme for Ligna 2019 (May 27-31) in Hannover (Germany) is 'Smart Surface Technologies', showcasing the full spectrum of innovations from providers of woodworking and wood processing technologies.

It will feature comprehensive coverage of the latest surface finishing trends and technologies, including haptic, matt and glossy surfaces, digital and decorative gravure printing solutions, print inspection systems, spray coating systems and robotics applications.

According to Mr Christian Pfeiffer, Deutsche Messe's Global Director for Ligna and woodworking events, "The R&D agenda in the surface technology arena is increasingly being set by a growing range of materials, new material mixes and the trend towards individualisation. Our exhibitors in Halls 16 and 17 and in parts of Hall 15 will present all the latest surface finishing technologies, applications, innovations and solutions."

When it comes to lacquers and glues, environmental friendliness and resource efficiency are primary considerations. The lines between manufacturers and the skilled trades are becoming increasingly blurred as cabinet making and carpentry firms gain access to technologies that have previously been the exclusive preserve of much bigger companies.

Another key factor driving this development is increasing market demand for highly authentic haptic surfaces, on both reconstituted and solid wood products, right across the furniture manufacturing and cabinetmaking sectors.

Examples here include bronzed surfaces and rough-sawn finishes – challenges that call for highly specialized machines if they are to be mastered cost-effectively. Thanks to recent advances, digital printing is now emerging as the more cost-effective alternative.

In laminate flooring production, recent advances in digital printing technology have also enabled the production of highly authentic continuous decorative layers in hitherto impossible lengths. "Pattern length is now not limited by printing cylinder diameter. We can now print patterns up to 6,000 mm long," said Mr Holger Dzeia, head of marketing and sales at Interprint.



Other systems

Inspection systems that ensure consistently high quality are becoming increasingly important in digital printing, with scanners already successfully integrated into single-pass lines all around the world. In the near future, camera-based control systems will ensure maximum quality and process reliability across the entire value chain, from printing and impregnation right through to the final pressing stage.

Visitors at Ligna can also expect to see many exciting spray coating innovations. For instance, it is now possible to produce both matt and glossy finishes on the same inkjet machine. Texture spray printing solutions open up even more applications and cost saving potential.

In the solid wood sector, oil finishes are very “in” at present. Special roller oil coating machines have been developed especially for furniture, staircase and parquet manufacturers. The latest generation of these machines will be on show at Ligna 2019.

On the sanding front, diagonal sanding systems capable of processing spray coated and veneered surfaces are currently at the forefront of technology. Automation is also big news here, with the advent of industrial robotic sanding machines capable of performing highly complex tasks that were once possible only by manual means.

Efficiency-boosting systems are also making big inroads into the adhesives sector. For instance, new adhesives containers now enable easy switching between all types of adhesives, including PUR adhesives. Major efficiency gains are also becoming possible through the use of interfaces which fully integrate adhesive application systems into host systems.

In the age of digitisation and integrated manufacturing, the time frame for big developmental leaps is no longer measured in years but in months. This makes a visit to Ligna all the more important for anyone wanting to keep abreast of the latest trends in wood processing and woodworking technology.



FRENCH MAN

PREMIUM WOOD COATING



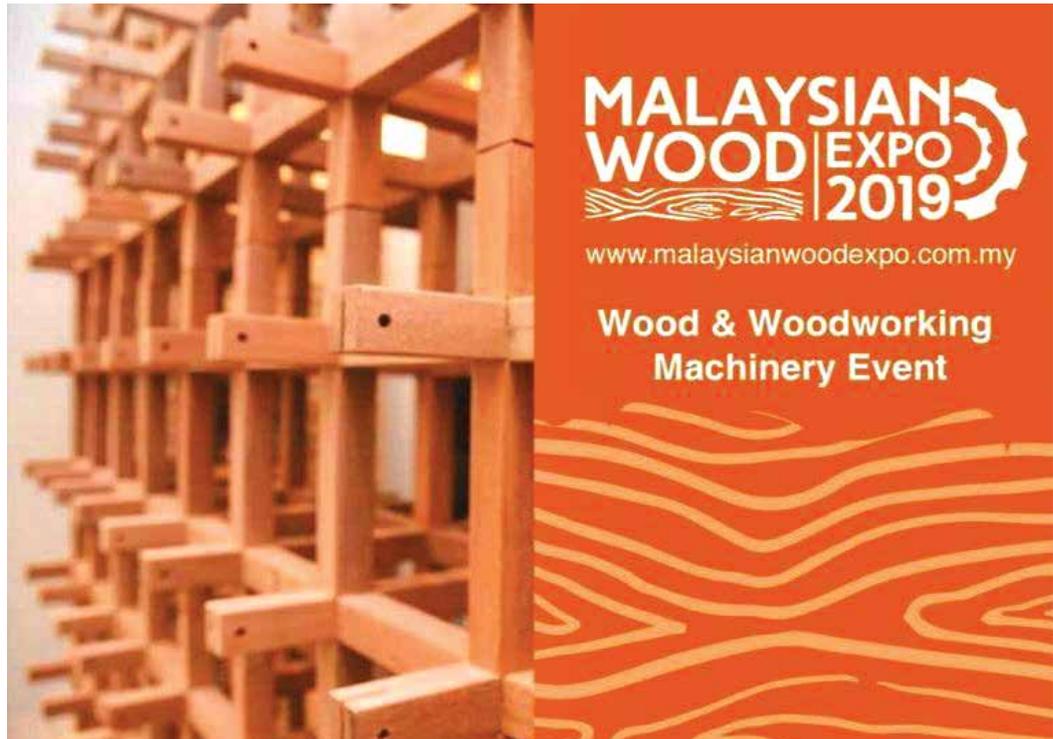
POLYAL
MOISTURE CURING P.U

SOLVENT & WATER BASE WOOD COATING

No. 38, 26th Cross, HBR Latout, 5th Block
Bangalore - 560 043, Karnataka, INDIA

E : info@frenchmancoatings.com | www.frenchmancoatings.com

TRADE INQ : 99801 87010



Malaysia Expo offers key to ASEAN market

The inaugural edition of the Malaysian Wood Expo 2019 (19-21 November) will be the first true coming together of top exhibitors in this part of the world. It is jointly organised by the Malaysian Timber Council (MTC) and the publisher of wood magazines, Panels & Furniture Group.

Scheduled to be held at the Putra World Trade Centre in Kuala Lumpur, MWE-2019 is expected to attract the finest international wood-based manufacturers and exporters – as well as woodworking machinery suppliers and buyers who will tap into the unlimited opportunities that some of the fastest-growing South-East Asian economies have to offer.

As the third-largest economy in Asia and fifth-largest economy in the world, ASEAN (Association of South-East Asian Nations) offers great opportunities with its recovery of exports and robust domestic demand. Since 2006, ASEAN's Gross Domestic Product (GDP) has stood steadily at 5.3%.

Total exports from the ASEAN economies rose by 14.7% to US\$ 1,322 billion in 2017. With several free trade agreements under its belt, trading with ASEAN countries will lead to a wealth of business opportunities.

Ranked as the second most competitive economy within the ASEAN bloc, Malaysia, with its well-developed infrastructure, sound political climate, strategic geographical location and business facilities, makes it an excellent gateway into ASEAN.

Malaysia will also be a good timber manufacturing hub for export to ASEAN, countries which has a combined population of over 640 million and a GDP of US\$ 2.8 trillion.

MWE 2019 is going to be about the market, trends, new products and the place where the tendencies of tomorrow are going to be discovered by all. The MTC was established in January 1992 to promote the development and growth of the Malaysian timber industry globally.

MTC's main objectives are to promote the Malaysian timber trade and develop the market for timber products globally, to promote the development of the industry by upgrading the industry's manufacturing technology base, to augment the supply of raw materials, to provide information services and to protect and improve the Malaysian timber industry's global image. (www.mtc.com.my).

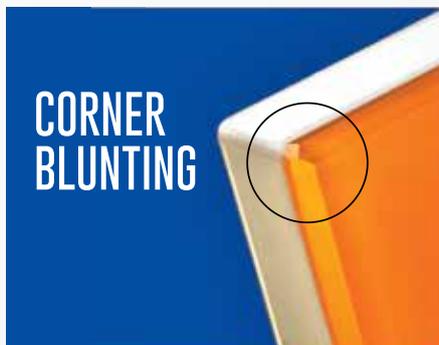
LACQUERED GLASS.
MADE BY CODE.



GLASS SHUTTERS

TO ADD SPICE TO YOUR KITCHENS

What makes our shutters the perfect ingredient for your kitchen



JB GLASS

1516 / 7B, WARD 31, DAULTABAD IND AREA (Near Toyota Showroom), GURGAON - 122006,
T. +91 124 413 3777, +91 98717 32671, 9810232671, Email : sales@jbglass.in | Website : www.jbglass.in



PERFECT MACHINE TOOLS

Turning Wood To Dreams...



SLIDING TABLE SAW



STRAIGHT LINE RIP SAW



MULTIPLE RIPSAW



EDGE BANDING MACHINE



BEAM SAW MACHINE



DOUBLE END MITER SAW



AUTOMATIC FINGER JOINTING LINE



SMART FOUR SIDE MOULDER



DOUBLE SURFACE PLANNER



AUTOMATIC PLANNER



DOUBLE SURFACE PLANNER



CIRCULAR SAW GRINDER



HORIZONTAL BAND RESAW



SINGLE HEAD BAND RESAW



CNC HIGH SPEED TENONING MACHINE



MULTI BORING MACHINE



THREE HEAD MULTI BORING MACHINE



MULTI BORING MACHINE



PIN ROUTER



PERFECT MACHINE TOOLS



Turning Wood To Dreams...



CNC ROUTER MACHINE



DOUBLE SPINDLE MOULDER



AUTO POWER FEEDER

Visit Us At :
DEHI
 WOOD
 FROM 13TH MARCH TO
 16TH MARCH 2019
 HALL NO. 14
 Booth No. G-712



HIGH FREQUENCY SLANTED TABLE



HIGH FREQUENCY FLAT TABLE



PNEUMATIC & HYDRAULIC CLAMP CARRIER



WIDE BELT SANDER TOP AND BOTTOM



WIDE BELT SANDING MACHINE



PNEUMATIC & HYDRAULIC CLAMP CARRIER



ANTIQUÉ GRAIN BRUSH SANDING MACHINE



CURVED SURFACE BRUSH SANDER



SMART SANDER



SMART SANDING MACHINE



COPYSHAPER



NC DOVETAIL MACHINE



CONTINUES DOVETAILER

Corporate Office :

29/99, Ajad Basti, Opp. Amber Tower, Sansar Chand Road, Jaipur-302001 (Raj.) India

Mob: +91 9828292853, 9983347865, Tel : +91-141-2379863

Web. : www.larkindia.in | Email : info@larkindia.in | sales@larkindia.in



Turning Wood To Dreams...

The hen that lays golden eggs!



WoodNews focuses on the dynamics of African timber trade and the benefits of Gabon's special economic zone (SEZ) and furniture cluster. The West-Central African country throws up interesting opportunities for investment, manufacturing and doing business with ease. A report from Dhananjay Sardeshpande.

1 Nkok SEZ has attracted companies that have invested in metallurgy, recycling, civil engineering and construction, pharmaceutical and cosmetics, IT and telecommunications, hydrocarbons, finance, timber and furniture.

Gabon has an exploitable timber stock of 400 million cubic metres, and given a rotation cycle of 25 years under sustainable forestry management (SFM) rules, 16 million cubic metres of round logs can be harvested annually.

However, as per World Bank recommendation 3.4 million cubic metres of logs can be sustainably harvested from the 11 million hectares of current forest concessions. This is

likely to move further northward with operationalisation of all 15.8 million hectares of forest concession assigned till date.

This can sustain at least three times the wood processing units currently under production or in the planning stages in Gabon.

Major structural changes are underway in the African timber industry as operations are being re-oriented away from European market towards Asian markets, driven equally by the supply and demand sides.

2 The Gabon SEZ in Nkok, 27 km from the capital Libreville, also hosts an Exposition Centre for furniture manufactured in its furniture cluster.



The demand for African timber has continued to grow in the vast expanse of a fast-developing



Asia. For example, the share of China in total African timber exports more than doubled from 25% in 2008 to 57% in the year 2017.

European companies and dealers with forest concessions in Africa are gradually giving up their assets to Asian investors – in particular those from China and Malaysia, and more recently India.

Asian operators in Africa have been better able to overcome market challenges because they have significant capital, a greater market demand to satisfy, and they have been successful in marketing a wider range of African hardwood species than the Europeans cared for.

Indian investors

The year 2018 proved quite an eventful year for Gabon special economic zone (GSEZ) in terms of veneer units getting into production mode and signing of agreements for new veneer units. A total of 13 investors from India and China signed up contracts.

Among others, Century Plyboard has also decided to set up its plant in Nkok SEZ and started construction. With this, both the plywood giants, Greenply and Century Plywood, have joined Nkok SEZ.

Two investors who already had their veneer manufacturing plants in the SEZ have now signed new agreements to augment their current production capacity. Another eight veneer units started production in 2018, making a total of 25 units under production with a peeling capacity in excess of 60,000 cubic metres per month.

With these developments, Gabon is now the

biggest producer of veneer in Africa and the largest veneer exporter in the world. With a view to give sufficient time for operational stabilization to existing and new veneer plants, GSEZ has stopped allotting industrial plots for veneer production as standalone industrial process since July 2018.

It is interesting to note that veneer units promoted by Indians in Gabon SEZ are supplying veneer to about 30 countries across the globe.

Veneer units in GSEZ are exporting to destinations like China, Myanmar, Indonesia and Vietnam. Okoumé veneer is being exported from Gabon to conventional and established veneer production hubs!

The most interesting feature of 2018 was signing of four contracts for setting up of plywood units and one particle board unit and that too all with Indian investors.

Another significant move was the signing of contract with Windson Resins and Chemicals from Bilimora, Gujarat, to set up a formaldehyde and resin plant since it would position Nkok SEZ as an attractive plywood manufacturing destination.

Better infrastructure

With 130 million cubic metres of exploitable stock of Okoume and practice of sustainable forest management, there is no dearth of raw material in Gabon's tropical forests. GSEZ is investing in strengthening the logistics framework for ensuring sufficient supply of Okoume and other hardwood logs to wood processing units.

With the growth of industries in SEZ there is ▶

3 Asian operators in Africa have significant capital, cater to a bigger demand, and have been successful in marketing a wide range of African hardwood species.

increased demand for raw material (1,00,000 cubic metres per month) and finished product transport (=2,000 TEUs) to sea ports. GSEZ has utilized US\$ 100 million to buy 95 log trucks that would bring raw material from forests, to buy 85 flat-bed container transport trucks to move the finished product to the port, and for the purchase of 200 railway wagons and three locomotives.

GSEZ has developed five nodes on a 650-km-long Trans-Gabonese Railway network running north-south across the country. It has deployed a trucking fleet to bring logs from the forests to these nodes, from where they are transported to the SEZ's Log Park.

The Log Park at GSEZ is spread over 30 hectares alongside the railway siding, and has a handling capacity of 50,000 cubic metres of logs per month. Separate log yards are also being developed for Okoume and other hardwood species.

Diverse industries

The main sectors in which companies have invested are metallurgy, recycling, civil engineering and construction, pharmaceutical and cosmetics, IT and telecommunications, hydrocarbon, finance, timber and furniture, tertiary services and many more.

The Gabonese government has granted fiscal incentives and a favourable legal framework for units settling in the SEZ. There is no corporate income tax for the first 10 years, no customs duty on import of equipment and machinery for industries, and no restrictions on repatriation of profits out of Gabon.

The 1,350-hectare multi-sector industrial park for economic development provides investors with industrial plots (on freehold basis as well as rent) and they can rely on world-class industrial infrastructure provided at Nkok SEZ.

Gabon has an ambitious vision in the forest-wood sector by 2025 – to make the country a world leader in certified tropical timber, driven by an innovative industry, fully valuing

the forest under sustainable management, carbon sinks and biodiversity sanctuary.

GSEZ, in partnership with the government of Gabon, will embark on a mission to develop about 25,000 hectares of Acacia and Eucalyptus plantations every year within a radius of 300 km of the SEZ. The output from these plantations would in many ways influence what would be achieved by 2025.

The total timber export from the SEZ in 2018 was worth approximately US\$ 150 million, while timber exports from Gabon stood at US\$ 450 million.

By the year 2025, export from GSEZ itself is estimated to be around US\$ 500 million, while exports from the whole of Gabon would touch US\$ 0.9 billion. Gabon SEZ is aiming to be Africa's leading wood panel production hub by 2025 and a matured furniture manufacturing hub by 2030.

There are more than 100 species of commercially available and sustainable trees species to be chosen from. Okoume (*Aucoumea klaineana*), Sapelli (*Entandrophragma cylindricum*), Padouk (*Pterocarpus soyauxii*), Beli (*Julbernardia pellegriniana*), Dabéma (*Piptadeniastrum africanum*), Dibétou (*Lovoa klaineana*), Movingui (*Distemonanthus benthamianus*), Okan (*Cylicodiscus gabunensis*), Niové (*Staudtia kamerunensis*), Tali (*Erythrophleum suaveolens*), Azobé (*Lophira alata*), Iroko (*Milicia excels*) and Izombé (*Milicia excelsa*) are among them.

History was made in the Gabonese capital, Libreville, when it hosted the first-ever woodworking and furniture manufacturing show in West and Central Africa, from 20 to 22 June, 2018. There were 74 exhibitors – including government agencies for the promotion of their woodworking industries – from 47 countries, even from outside the African continent, for the three-day event.

The African Timber Forum, organised by Gabon's Ministry of Forests, Environment and Sustainable Development, discussed the future of the African wood processing industry by the year 2030.

Organised in partnership with the Forestry Commission of Central African States (Comifac), there were deliberations on developing a profitable, waste-free, carbon-efficient and socially inclusive wood processing industry in the sub-region.

Interested in woodworking business opportunities in Gabon SEZ? Write to Mr. Nitin Misra (misra.nitin@arisenet.com) or Mr. Jasveer Singh (jasveer.singh@arisenet.com).

4 With 130 million cubic metres of exploitable stock of Okoume and practice of sustainable forest management, there is no dearth of raw material in Gabon's tropical forests.



**Teak Wood Logs | Teak Sizes | Door & Window Frames
Hard Wood Logs & Sizes | Teak Planks | Doors**

Leaders in Teak Wood



T. Raja Sekhar
Managing Director

09840070992



Bolivia



Ecuador



Ecuador



Colombia



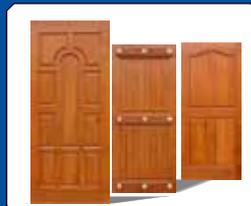
Panama



Sudan



Door Frames



Teak Doors



Sizes



Colombia

Timber Yard : No 19, Jaya Street, Puzhal Union Road, Vadaperumbakkam, Chennai - 600 010.

Corporate Office : 12/1, 1st Floor, United India Coloy, 4th Main Road, Kodambakkam, Chennai - 600 024.

Contact : 09840815812, 07092212666 | **Projects** : 09840070992

Email Id : jayarajenquiry@gmail.com | **Website** : www.jayarajtimber.com



1

Leading the pack of GenX wood industries

Gabon SEZ is promoted by a joint venture of Olam International Ltd (Singapore), Africa Finance Corporation and the Gabonese Republic. The country is fast emerging as the West Central Africa's manufacturing hub. Today, Nkok SEZ has around 155 customers from 17 countries which includes over 50 industrial units set up by Indians, non-resident Indians and persons of Indian origin.

Mr. Rishabh Shrishrimal of Africa View SA has established a face veneer manufacturing plant in Gabon SEZ at Nkok and has been operating it for the last 3 years. He has recently started construction of a wood panel manufacturing unit as well in this SEZ. *WoodNews* caught up with him on his experience of establishing his units in Nkok SEZ and the growth chart achieved by the company in a short span.

Would you like to share more about your ventures in Gabon SEZ?

We established a peeling plant in Nkok SEZ in the year 2016 to produce quality veneer from available species in Gabon and to cater to few premium markets. Even though we set up the plant with world class machinery, we constantly upgrade our processes and facilities. Today we are catering to world class plywood consumers across the globe.

We have expanded our peeling capacity and range of products in last six months. We have also set up a saw mill in the same premises and its commercial production will commence in February 2019. We are also in process of setting up a wood panel production unit at another location within Nkok SEZ. We aim to start commercial production of plywood by May 2019 and particle board by November the same year.

1 *The company's long-term commitment to Gabon can be gauged from its forest concessions totaling 78,300 hectares.*

How do you rate the ease of doing business in Gabon SEZ?

Africa as a continent has several challenges in doing business; more so in establishing a green-field manufacturing facility. However, with the kind of hand-holding offered by GSEZ to its investors, the challenges are mitigated to a great extent.

The single window clearance system is truly a one-stop solution for all needs to establish and operate a manufacturing unit. In this sense, I would personally rate the GSEZ on “ease of doing business” much higher than most developing countries, and perhaps the highest rated on the African continent!

Do you think Gabon is suitable for large scale investments?

Barring a few challenges – which in my opinion are not very significant – Gabon offers opportunities for setting up medium to large scale projects. It is an investor-friendly country. Especially with the existence of the Nkok SEZ industrial development in the country in last 5 years has been rapid.

We did our SWOT analysis on Gabon and decided to set up the first particle board

manufacturing line in whole of West and Central Africa and a modern plywood manufacturing line in GSEZ. Both the projects entail large capex, management skills and manpower resources. We are confident to make the project a success.

What timber species you will be using for panel board manufacturing?

We will use only Okoumé for our plywood, which is a premium grade of plywood in developed countries. As far as particle board is concerned, we will be utilising the wood waste available from various peeling units and sawmills in the SEZ and therefore it will be a mix of species.

All the wood processing units in Nkok SEZ produce around 1,000 metric tonnes of wood waste every day, and we will be utilising a maximum of 50% of this waste with currently planned capacity.

How does 100% Okoumé plywood compare with plywood made from acacia, eucalyptus or poplar?

Technically speaking, the plywood made from 100% Okoumé veneers is a much stronger panel than the plywood made from the said ▶



2 Mr Sanjeet Mohanty (left) and Mr Rishabh Shrishrimal, the young directors of Africa View in Gabon. Until now the total investment portfolio of Africa View in Nkok SEZ is around US\$ 22 million.



mixed species of timber wherein the core and panels are of different species and Okoumé face veneer.

For this reason, 100% Okoumé plywood is considered one of the best marine grade plywood across Europe and other markets and has special applications such as for external usage (marine grade of plywood), for high-end furniture, yacht manufacturing etc.

In terms of price a 100% Okoume plywood will be at least 50-60% more expensive compared to plywood manufactured with other species.

What market you would be targeting to sell the plywood and particle board from your wood panel unit?

Our target market for pre-laminated particle board will be primarily the African continent. For plain particle board it would be some pockets in Africa. We would like to sell our plywood to premium markets in Europe and the US. We see limited possibility of selling in India as it is not a large market for premium panels.

What is current volume of export of Okoume plywood from Gabon to Europe and the US?

Largely, European and Chinese manufacturers are producing 100% Okoumé plywood for sale in Europe. However, a very small quantity may be going to the US. Our estimate is that overall about 200 containers per month of plywood are being currently exported from Gabon.

Some companies manufacturing Okoumé plywood are Rougier Gabon (France), Cora Woods (Italy), SYIBG (China) and SEEF (Gabon). One company from Nkok SEZ has been into plywood production since 2017 and is exporting it to Western African countries.

Are you planning to go for FSC certification for your upcoming wood panel manufacturing unit?

Yes, we are in discussions with agencies to help us in obtaining HACCP, FSC and other mandatory certification as they play an important role in sale of any forest product to European country. The President of Gabon made an announcement last year that all the forest operations will have to be FSC certified by 2022.

Okoumé for veneer manufacturing comes from forests with sustainable logging operations. Are you also going to use same Okoumé timber for plywood?

We have designed our manufacturing plant to use plantation timber along with timber coming from natural forest concessions. GSEZ has assured to provide sufficient volume of plantation logs for our plywood unit from their existing PFM plantation.

Further, GSEZ has planned to develop Acacia and Eucalyptus timber plantation of 25,000 hectares every year within a radius of 300 km of Nkok SEZ. This can potentially become another sustainable source for timber, especially when the demand for timber is rising year on year.

From where you have planned to source the formaldehyde/ resin for your wood panel manufacturing unit?

This was one of the most crucial aspects for us in our decision to set up the particle board and plywood projects. We were encouraged to know that Windson Resin and Chemicals from Bilimora, Gujarat, is setting up a modern formaldehyde and resin plant in Nkok SEZ and that too from methanol feedstock!

They will be producing both E0 and E1 grade resin in their plant. GSEZ has provided them a plot next to our wood panel unit for convenient sourcing of formaldehyde and resin from them for our plywood and particle board production. We are looking forward to the plant shall come on stream soon.

In the 4 years since you set up business here, how has Gabon progressed in terms of ease of doing business?

I have witnessed a marked improvement in

the entire business ecosystem in Gabon. There is greater degree of cooperation and coordination among government agencies, ports, logistics and other infrastructure required for industries.

There is a constant desire and efforts by the administrative authorities and GSEZ for making the systems, rules and regulations easier and more investment-friendly. I can say that the future, undoubtedly, is going to be even better.

What is your message for our Indian readers?

Traditionally Gabon has been a hub of raw material for wood processing industries with the best of tropical hardwoods and sustainable supply. Now that the SEZ will have sufficient production of particle board (pre-laminated), premium quality plywood and beautiful species of hardwood lumber, there is amazing opportunity for both high-end solid wood furniture and panel-based modular furniture.



1

For Mr Pritam Nannare, CEO of Guru Amar Industries, attending GabonWood earlier this year, it feels like doing business in India itself! He has been supplying veneer peeling machinery to several Indian investors in Gabon, under the brand name Tuskar.

The Yamuna Nagar-based manufacturer specialises in spindle-less log peelers, rotary lathes, debarkers and veneer-cutting knives and grinders. Guru Amar Industries has been on the Africa continent for close to a decade now. Its machines are running without hitch in woodworking units in Ghana, Ivory Coast, Kenya and Tanzania.

Pritam's main challenge in Africa comes from Chinese machinery suppliers; but his clients on the continent attest to the rigid construction and long-lasting operation of his machines. And, just like Gabon attracts investors to its domain, the SEZ must incentivize machinery manufacturers from across the world, he feels.

But there are bigger opportunities beyond log peeling in this West-Central African woodworking hub, Pritam feels. "Indian machinery manufacturers must look to Third World markets because they are price-competitive and offer great business potential," he adds.

1 *Mr Pritam Nannare, CEO of Yamuna Nagar-based Guru Amar Industries (third from left), along with his sons at the Gabon WoodShow 2018 in Libreville.*

'Developing markets have great potential'



Greenply leads the way for investors

India's flagship manufacturer of interior products, Greenply Industries, decided to set up base in Gabon SEZ in 2016, and began production of Okoume face veneer in June 2017. That added a lot of weight to the SEZ concept in the African country.

Greenply (Gabon) is a fully owned subsidiary of Greenply (Middle East), according to its Director-General, Mr Sudeep Jain. The factory in the SEZ spreads over 10 hectares with peeling lines being installed in two phases, together involving a capital expenditure of Euro 16 million.



of forest concessions can be harvested each year, and 86% of land in Gabon is under forest cover.

Nkok SEZ and its operator, GSEZ SA, were instrumental in Greenply's decision to enter Gabon. The SEZ provided all infrastructure for operations, single-window clearances for administration and registration, security and even accommodation for its investors, says Sudhir.

"That fact that the GSEZ executives are Indian also helped, because not all investors here know French, the local language," Sudeep adds. Raw material supply (logs) is also not a problem. In fact, the SEZ in Nkok (30 km from the capital Libreville) can increase peeling capacities in the coming years.

Most of the labour at the SEZ is local (80%), with the remaining 20% consisting of machine operators and supervisory staff coming from India. Sudeep says Gabonese employees are quick to pick up skills; he sees no impediments in staffing patterns in the future.

So what are the constraints the investors face? Sudip admits there was a shortage of sea-going vessels to export face veneer, but the SEZ operator has sorted that matter. "There was a sudden explosion in exports from the SEZ, for which the shipping companies were not ready," he notes.

However, the cost of logistics and port charges, Sudeep feels, are on the high side. "That preempts many investors from manufacturing low-value products for export," he says.



Mr Sudeep Jain, Director-General, Greenply (Middle East).

The already operational first phase has peeling lines to cater to markets in India and China, apart from growing demand from the Philippines, Indonesia and Thailand. The second phase envisages several more production lines for markets in Europe, Turkey and Morocco. "The US market is also very interested in our face veneer," Sudeep added.

Greenply initially surveyed Gabon as a production hub in 2012, after Myanmar announced the ban on export of logs, Sudeep said, adding that the Central-West African country seemed the only sustainable source of the much-sought-after Okoume and other face veneers.

"Forestry management plans are better supervised in Gabon, compared to many other countries," Sudeep informs. "The inspection regime here is very strict." Only 4%

INNOVATIVE TOOLINGS FOR SOLID WOOD & PANEL PROCESSING INDUSTRY



AN ISO 9001 : 2015 CERTIFIED COMPANY

ACCUTEC TOOLING SYSTEM PVT. LTD.



About Us:

- » **ACCUTEC** Specialize in the Manufacturing of High Quality Tungsten Carbide Brazed, Changeable Knives & Diamond (DP) Toolings For Panel Processing and Solid Wood Industry.
- » High Quality Standard Toolings is Manufacturing in One of The Best Tooling Company in India With Complete European CNC Machineries.
- » A Quality Tooling Can Do Its Best if Service and Maintain it With Regular Schedule. Therefore **ACCUTEC** Provide Sales & Service Centers in Metros City of India For Expert of All Tooling.

PRODUCT RANGE

- » Saw Blades » Drill Bits » CNC Router Toolings
- » Diamond Routers & PreMilling Cutter Head
- » Diamond Saw Blades for Beam Saw & Panel Saw M/C
- » Inserts, Knives, Collets Chucks
- » Planner Cutter Heads » Router Bits
- » Doors & Windows Toolings
- » Flooring & Paneling Toolings
- » Finger Joint Cutters, ETC...

Accutec Wood Tooling System Pvt. Ltd.
Universal Tools Industries

Plot No. 430, Road No.11, Kathwada G.I.D.C,
Phase-II, Kathwada, Ahmedabad-382430. Gujarat (India)

☎ +91 99786 03014/15/16 ✉ accutectooling@yahoo.in

🌐 www.accutectoolingsystem.com

OUR SALES & SERVICE CENTER

Ahmedabad : 9825021451	Delhi : 9979086060	Vapi : 9768330445
Hyderabad : 9966846061	Mysore : 8970144000	Kochi : 9324791813
Mumbai : 9819969987	Surat : 9374541114	Kannur : 9061033903
Bangalore : 9900083878	Pune : 9850418506	Raipur : 9825610705

SFM practices ensure long-term business



Mr. Sunil Kumar of Asia Pacific Exports.

Mr. Sunil Kumar of Asia Pacific Exports (APE), a reputed furniture manufacturer from Jodhpur (Rajasthan), has explored Gabon in the last 6 years and has established a furniture manufacturing unit and face veneer plant in Gabon SEZ at Nkok. He has recently started construction of a saw mill as well in this SEZ.

APE is currently running a face veneer plant with three peeling lines and has a processing capacity of 15,000 cubic metres of logs per year. It has also set up a furniture manufacturing unit in the Furniture Cluster of Gabon SEZ, where it is currently manufacturing school furniture for the Government of Gabon, and also meeting export orders from Europe.

“We started the face veneer plant in Gabon SEZ because the raw material, Okoume, is available in plenty. Moreover, sustainable forest management (SFM) practices in Gabon ensure long-term sustainable supply of timber,” Sunil noted.

The main reason for setting up a furniture manufacturing unit was the sustainable supply of the timber species like Beli, Mouvingui, Wenge, Tali, Padouck and Kevazingo, which are in high demand in European and US markets.

APE has begun manufacturing upscale furniture for its existing buyers in European and US markets. Furniture majors like Wolf Mobile (Germany), Artemano (Canada), Terry and Williams-Sonoma (USA) and Habufa (the Netherlands) are now buying furniture manufactured from sustainably harvested wood available in Africa.

Opportunities beckon

“The support and facilitation offered by GSEZ is truly exceptional. A dedicated relationship officer is nominated for each investor in the SEZ for all necessary documentation, approval processes and general coordination,” Sunil said.

The single-window clearance facility located within the SEZ makes it very easy to procure the required approvals and permits for setting up and operating an industry from all relevant 17 departments.

“Surprisingly, the costs of obtaining permits, construction and start of operations have reduced over the years with more and more companies coming to establish processing units in the SEZ,” Sunil adds.

He points out that there are good opportunities for Indian entrepreneurs to set up ancillary and support facilities such as packaging material, metal processing, nickel-bronze plating and the metal industry.

“We took the decision to start our operations here because Gabon SEZ is situated in the right place and all forms of connectivity – from inland waterways connecting to ports, roads and railway access – for sourcing raw material and evacuation of products,” says Sunil.

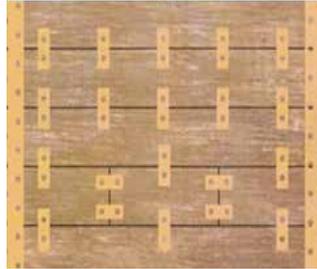
Additionally, any unit setting up business in this SEZ will benefit from exemption of import duties on raw material, plant and machinery, as well as export duties, he notes.

1 Major import houses in the US and Europe have decided to source minimum 30% of furniture done with SFM-compliant wood by the year 2020.

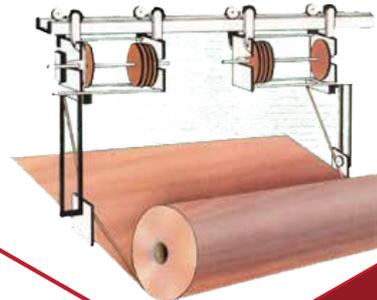
Venner Tapes for the Plywood and Veneer Industry



CORE VENEER TAPE
Used for Assembly of Core Panels



GREEN VENEER TAPE
Used During Peeling of Logs



DRY VENEER TAPE
For Repair of Face Veneers

Perforated



Plain

WHITE VENEER TAPE
For Decorative Veneers



KUPER

Glue Thread & Powder
for Veneer Stitching &
Gluing Machines



Veneer Hand Stitching Machines



KHL 1



KHL 2



HFZ 4

Waterproof Corporation Private Limited

Waco House, Masrani Lane, Kurla (W), Mumbai 400 070, Maharashtra, India

Tel : + 91 - 22 - 2503 4579 / 2503 3773 / 2503 8319 Fax : + 91 - 22 2503 4318

Email : waco@vsnl.com • www.wacotape.com • CIN NO : U17298MH1942PTC003635

Up next: Plywood and sawn timber



1

1 *Okoume sawn timber is a big hit in cash-rich Arabian markets of Oman, Saudi Arabia, Egypt, Yemen and the United Arab Emirates.*

Gabon Veneer Sarl was born of a need to supply Okoume face veneer to its owners' plywood factory in Gandhidham. Since it went into production in 2015, it has been supplying 65 containers per month to its parent company in Gujarat.

Its Director, Mr Archit Goel, credits the Gabon government and GSEZ with facilitating investment and generating business to members of the SEZ in Nkok.

"The SEZ has gone full out to assist investors with good infrastructure, initial registration and documentation, tax-free income, looking after administration of the zone.... They have also provided us with reliable suppliers at our doorstep," Archit says.

His factories in Nkok have 10 debarkers and peeling lines, sourced from Chinese and India machinery manufacturers. Gabon Veneer is about to expand with a third veneer factory after booking export orders to Vietnam, Egypt, Morocco and Turkey.

He says Okoume sawn timber is in great demand in the West, and is a big hit in the Arab world, including Oman, Saudi Arabia, Egypt, Yemen and the United Arab Emirates.

On the back of rising demand for sawn timber from African hardwoods, Archit now has his sight set on a saw mill in the SEZ. "The demand right now is from Vietnam," he says, adding that the Indian market will follow suit.

The prospects for plywood and sawn timber in Gabon SEZ are very bright in the coming years, he adds. They are in discussion with GSEZ to set up a plywood factory.



2 *Mr Archit Goel, Director of Gabon Veneer Sarl. His company has invested around US\$ 8 million in the two units in Nkok SEZ.*



MP360

PLANER/MOULDER

High Production Four-sided Moulder
and Planer for full flexibility to produce
finished timber

TOP 3 BENEFITS

- 4-sided planing and profiling in one pass
- Large 4-sided cutting capacity 350 mm wide x 160 mm high
- Cutters & feed driven by 5 separate motors



PROFILE KNIVES AND WEDGES



CONTACT WOOD-MIZER'S INDIA COUNTRY
MANAGER FOR A QUOTE!
BOBBY RUBAN JOSEPH +91 98 47 16 99 99
INFO@WOODMIZERASIA.COM
Asia +886 905 687 708

www.woodmizerasia.com

Wood-Mizer
from forest to final form



Mr Naveen Goel, Director of Sun Veneer.

'Soon-to-be global sourcing hub'

Coming from a traditional timber trading family in Gandhidham for 65 years, for Mr Naveen Goel, Director of Sun Veneer, the idea of setting shop in Gabon was not unusual.

With the restrictions on log exports coming into effect in Myanmar, and short supply of hardwood logs in South-East Asia, Naveen decided to take a look at Gabon, its SEZ and the hinterland in August 2016.

1 Okoume can be said to be the 'red gold' of Gabon.

What he saw impressed him so much that by May 2017, he had set up his factory for Okoume face veneer in the SEZ!

"The facilities offered by the SEZ were irresistible," Naveen recalls. "And that fact that its operator had Indian executives helped

many of us overcome the language and cultural barriers."

The land cost payments were over the long term, GSEZ offered credits for timber purchase, and the raw material was delivered to the Sun Veneer factory in the SEZ. The profits are lucrative, and growth of business was phenomenal, he adds.

Naveen's company has so far invested US\$ 4 million in the project, including peeling lines and loading containers. Sun Veneer currently supplies only to the Indian market, making full use of Naveen's extensive network of distributors and long-standing clients across the country.

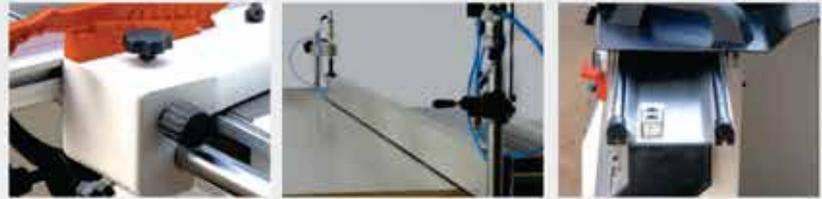
He too faced challenges in factory-to-port logistics and felt the pinch of shortage of shipping vessels to transport his containers to India. But, he adds, GSEZ has made many successful efforts to cut the backlog. These steps include rescheduling of merchant vessels, adding bulk break ships to the list, and buying more containers.

Would he recommend Gabon to prospective investors? "Oh yes! Gabon is already a leader in production and export of veneer; and soon it will become a global hub for plywood and panel boards," Naveen stresses.

However, he cautions against investors setting up a company only for the sake of profits and appointing managers to look after operations. "The promoters must stay in Gabon. That way they will be witness to the exponential growth of their businesses and be able to tap the expanding global market," he insists.



**WOOD
MASTER**



DIMENSION SAW WITH SCORING CUTTER
MODEL : WM-245 TLT



DOUBLE SIDE TRIMMER, BUFFER & END CUTTING MACHINE
MODEL : WM-248 TRBF



EDGE BANDING MACHINE
MODEL : WM-246 A



MULTIPLE BORING MACHINE (DOUBLE HEAD)
MODEL : WM-249 DH

PANNEL PROCESSING MACHINES



CNC ROUTER
MODEL : WM-401VC

**SMART
PEOPLE
SMART
CHOICE**

WOODMASTER (INDIA) MACHINES PVT. LTD.

Head Office

St. no. 7, Bachittar Nagar, Ludhiana (Punjab)
Mb : +91 - 98156 - 27422, 98760 - 63422

Telephone : +91 - 161 - 5034422
E - mail : info@woodmasterindia.com
ludhiana@woodmasterindia.com
Website : <http://www.woodmasterindia.com/>

Pune Office

Sr. No. 27, Burhani Ind. Estate
(Near Excel Polymers) Kandohwa
Budruk, Pune - 141 048
Mobile. +91 90110 27422

Delhi Office

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



'The future is timber processing'

1

When Mr Devesh Kabra first came to Gabon, he was looking to setting up a printing press, to carry forward his family business of exporting books and stationery to many African countries. But Gabon SEZ's furniture cluster caught his imagination.

real estate and business of commercial vehicle financing. "The GSEZ operator has built an excellent ecosystem for the woodworking cluster, Devesh said, which includes resources, infrastructure, logistics and even empanelled buyers!

1 *Mr Manish Jain, Director of WoodPro Industries, at his Nkok timber sawing factory.*

Devesh, along with co-Director, Mr Manish Jain, set up WoodPro Industries in 2015, to export the vast variety of wood species found in abundance in the country.

"Be it our company's registration or buying land, setting up the factory or sourcing raw material, preparing the logistics network or helping us find ready markets, GSEZ has been with us all the way," Devesh says.

"GSEZ helped us at every stage of setting up our new business," says Manish, who is into

WoodPro's 3-hectare plot currently houses



2

2 *Mr Devesh Kabra, another Director of WoodPro Industries, employs 20-odd skilled machine operators from India and another 60 Gabonese assistants.*

several horizontal and vertical band saws, rip saws and re-saws – nearly all of them of Chinese origin. The project was set up at a cost of Rs 16 crore. The factory also has automated, software-controlled kiln-drying chambers, installed at a cost of Rs 2.5 crore.

Because of the high level of automation, Devesh says, WoodPro Industries has a staff of 20-odd skilled machine operators from India and another 60 local Gabonese assistants.

According to Manish the current capacity for kiln-drying is about 3,000 cubic metres per month, whereas the sawing capacity stands at 4,000 cubic metres per month. Plans are already afoot to double the existing capacities to meet the surging demand for sawn timber from Africa.

“Gabon has good African timber, including hardwood,” says Manish. “The volumes can be very big once Gabon is well settled and is recognized as a sustainable source of certified timber.”

WoodPro Industries currently supplies Okoume and Padouk to more than a half-a-

dozen countries in Europe, West Asia, the Philippines and India. In Europe Okume is mainly used for sofa frames and for door and window frames, Manish says.

“We supply Padouk to two companies in Tuticorin,” Devesh chips in. “They use it mainly for cladding and flooring.” Manish adds, “We want the Indian market to shift Beech and Meranti to Padouk and Okoume in the coming years. Padouk is by nature resistant to borers and termites.”

The cost of logistics is high in comparison to other timber and veneer exporting countries, Devesh admits, but expects it to become competitive once Gabon settles down to becoming a regular exporter.

What next? “There are a lot of veneer units, saw mills and furniture factories in Gabon SEZ. We want to set up a panel manufacturing plant here to make good use of all the waste wood,” Manish signs off.

Knowing what Indian enterprise can achieve, and with support from GSEZ, nothing is impossible in Nkok SEZ!

3 *These China-made automated drying kilns at WoodPro Industries have a capacity to treat 3,000 cubic metres of sawn timber per month.*

3





1

Jewel in the crown: Gabon Woodshow

History was made in the Gabonese capital, Libreville, when it hosted the first-ever woodworking and furniture manufacturing show in West and Central Africa, from 20 to 22 June, 2018.

1 *Gabon Woodshow, organised in Libreville, offered its participants the opportunity to meet and network with timber, woodworking machinery and forestry professionals.*

There were 74 exhibitors – including government agencies for the promotion of their woodworking industries – from 47 countries, even from outside the African continent, for the three-day event, which aimed to highlight the potential and dynamism of the timber industry in the sub-region.

An estimated 2,800 visitors were attracted to the exhibition and concurrent technical conference and timber forum at the 3,000-square-metre facility at Jardin Botanique, in the heart of Libreville.

2 *There were 74 exhibitors from 47 countries, even from outside the African continent.*

The President of Gabon, Mr Ali Bongo Ondimba, inaugurated the event, saying that innovations in woodworking could offer the opportunity to revolutionise the market of building materials and housing in Gabon, in terms of cost and efficiency.

The West and Central Africa sub-region is an important producer of wood products, but ▶



Leitz RazorCut Sawblades

are the right solution for cutting postlam boards. This sawblade has proved that it is far ahead of any other sawblade in the market, in terms of more life, as well as edge quality.



Specifications:

- TR/TR tooth configuration suitable for abrasive materials
- UT design or irregular tooth pitch combined with plastic filled laser ornaments for vibration damping the tool body reduces noise and gives a high quality cut
- Due to special coating on the tool body there is reduced resin build-up on the tool body

Advantages:

- 3 to 4 times more life than any other sawblade available in the market
- Excellent quality of cut



Complete Range of Tools



"Visit us at Hall H14 & Stall H820"

13-16 March 2019
India Expo Centre and Mart,
Greater Noida, India

production is dominated by industrial round wood and primary processing, mainly the production of sawn wood and wood-based panels.

Historically, countries in the sub-region have been log exporters. It comprises of 230 million hectares of forest covering Gabon, Cameroon, the Central African Republic, the Democratic Republic of Congo (DRC), Equatorial Guinea and the Republic of Congo.

Mark the Dates!

On the back of the evident success of the first edition in 2018, the second edition of Gabon Wood, the woodworking and forestry show, will be held from June 24 to 26 this year in Libreville, the capital of the African country.

It continues to be the biggest event in West and Central Africa that offers businesses the chance to meet wood sourcing, woodworking and forestry professionals. Gabon WoodShow 2019 is in partnership with GSEZ, Ministry of Water and Forests, and the Gabonese government.

3 Gabon alone is home to more than 100 species of hardwood trees, including the famous Okoumé for veneer.



It is the second-largest mass of tropical rainforests in the world, and is home to more than 100 species of hardwood trees – among them the famous Okoumé (*Aucoumea klaineana*), Sapelli (*Entandrophragma cylindricum*), Ayous (*Triplochiton scleroxylon*), Limba (*Terminalia superba*), Moabi (*Baillonella toxisperma*), Ebony and Wengue.

Timber trade in the sub-region is influenced by local, regional and overseas demands, with the European Union, China and the US being the important markets. However, much of the demand for wood products within the region is for rough-sawn and low-grade timber used in construction and joinery. That is what Gabon Woodshow 2018 is seeking to change!

PAFC boosts Gabon's commitments

PAFC (Pan-African Forest Certification) Gabon, as a grassroots organisation that is governed and administered by local stakeholders, is well positioned to support its government's goal of dramatically increasing both the uptake of certification and the expansion of sustainable forest management in the country.

"We are ready and prepared to assist our country in achieving its objective to become the world leader in certified tropical timber," said Ms Rose Ondo, President of PAFC Gabon.

"We share this ambition, which will increase the competitiveness of Gabonese forest products while at the same time safeguarding our unique forest ecosystem and improving the life of people and communities who depend on forests for their livelihoods," she added at a function recently.

"Our national forest management standard uniquely addresses the distinct needs of Gabon and the Gabonese forests. This is what makes the PAFC Gabon standard so special: It was written by Gabonese for Gabon, fully respecting our national sovereignty," said Ms. Ondo.

PEFC (the Programme for the Endorsement of Forest Certification), the world's leading forest certification system, endorsed the PAFC Gabon forest certification system in 2009. More than 18,000 companies around the world are already PEFC-certified and can readily integrate PAFC-certified timber into their supply chains.

"We believe that PAFC Gabon, with the tremendous support they are experiencing on the ground, can have a positive impact well beyond Gabon's national borders and help the country demonstrate its leadership position on sustainable forest management in the Congo Basin," said Mr Peter Latham, Chairman of PEFC International.



Congratulations to



CENTURYPLY[®]

GSEZ congratulates Century Ply on start of construction of their plant at **Gabon SEZ**

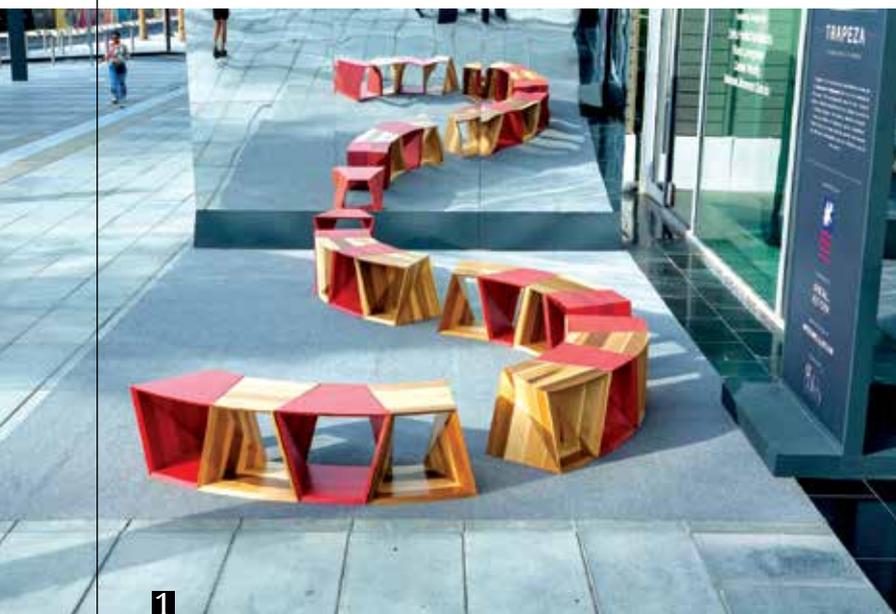
With best wishes :



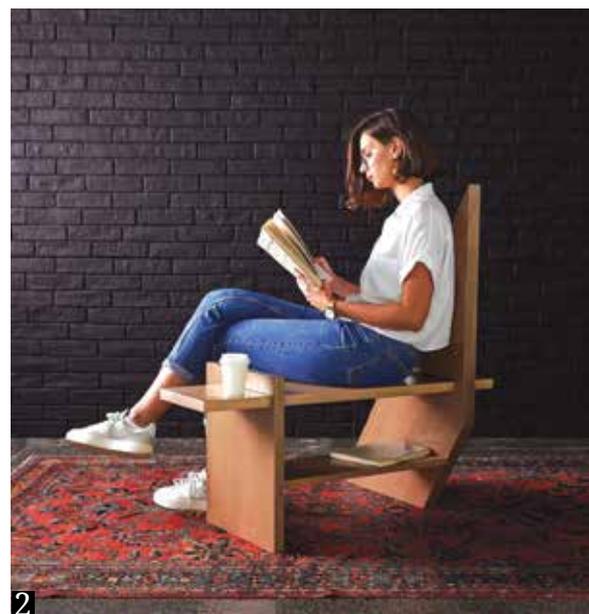
www.gsez.com

Email : gsez@olamnet.com

Phone : (+241) 02 00 10 86 / (+241) 06 00 56 66 / (+91) 83 83 057 074



1



2

American tulipwood shows off in Dubai

American tulipwood was in the spotlight at the recent 4th edition of Dubai Design Week (DDW) held in November, 2018. A series of collaborative installations and product displays across Dubai highlighted the growing demand and widespread acceptance of American hardwood species by the design community in the UAE.

As part of its mission to develop existing markets and find new markets and applications for American hardwoods, the American Hardwood Export Council (AHEC) displayed its 'Trapeza' seating installation at the event.

The contest was open to all designers specializing in furniture and functional objects across the UAE. D3 produced 100 pieces of the winning work in American tulipwood, which were then made available for sale to the public.

Leading the way was the winner of the 'Design 100' initiative, the 'Reading Bench' by designer duo Sakina Kara-Sabur and Alicia Spoljar from BySozo Interiors.

From the side, the shape resembles a dhow with a sail and is also reminiscent of Dubai's iconic landmark Jumeirah Emirates Towers. Seamlessly blending history and modernity that is characteristic of the UAE, the piece with seven points represents the unity of the seven emirates.

To make all 100 pieces, it took 6.94 cubic metres of American tulipwood lumber. Most importantly, all the American tulipwood used to make the benches would take just 6.7 seconds to be replaced by natural growth in the American hardwood forest.

Designed by Apical Reform and manufactured by Speedwell Decor, the basic design idea behind Trapeza was to create an interactive installation out of American tulipwood that is built to be adapted by the users.

The bench, which is formed using a total of 17 modules, gives a seamless linear and non-linear seating option and allows for different placements and the efficient use of any space. Each module of Trapeza is purely inspired by geometry and the form has been achieved by subtractive, additive as well as dimensional transformation of the basic solid trapezium.

"One objective of Trapeza is to raise awareness of the versatility, colour and the beauty of American tulipwood when used as a material. With Trapeza, we continue to provide innovative pieces for the public outdoor area," said Mr Amrish Patel, Principal and Founder of Apical Reform.

"Even the tiniest twist in the solid trapezium can create a number of new possibilities and this leads to the efficient use of space. Commercially, can be arranged in different shapes for public seating," he added.

1 The configurable twist of Trapeza allows endless possibilities for indoor as well as outdoor spaces.

2 The 'Reading Bench' resembles a dhow with a sail. The piece has seven points, representing the unity of the seven emirates comprising the UAE.



plastic



Now stick plastic PVC & WPC boards to laminates, with L-Fix.

Ordinary glues don't last long on PVC & WPC boards. Only Fevicol L-Fix is specially formulated to bind laminates to such surfaces. Further, it can withstand boiling water temperatures, ensuring that your furniture stays as good as new.

- Moisture curing, high performance 100% active (non-water & non-solvent based) adhesive
 - Recommended only for cold press machines
 - Faster setting in just 2 hours
- Superior coverage
- Water resistance conforming to EN 204 / 205 European Standards



Office chairs that revolutionise the way we work

Most people spend more time in their office chairs than anywhere else over 8 hours, dedicated to being stationary in front of a computer. If we're spending our lives sitting still, a well-designed, comfortable, smart seating solution isn't just a good idea; it's critical to the individual's performance and health.

After two years of intense R&D, engineer and former yacht builder Tom Derektor has released the Fehn, a chair for standing desks that solves the most pressing health and performance problems associated with typical office seating.

Derektor and his team worked with medical professionals, athletes and scientists as they

formulated the Fehn concept, ultimately concluding that there is no such thing as a single position that's healthy to stay in all day - whether sitting, standing, or anything in between. Designed to use with standing desks, the chair seeks to end sedentary work.

Tom, who is the CEO and Founder, is an engineer and entrepreneur with multiple patents, has more than 35 years of experience in engineering, manufacturing, construction, product development, financing, and executive management in the automotive, shipbuilding, composites, and marine renewable power industries. He literally grew up at Shipyards building yachts, commercial and military vessels,

"The idea was born from necessity; my back was killing me from sitting all day. I tried standing desks, but then both my back and feet hurt. After testing virtually every product on the market, we became obsessed with developing a solution," says Tom.

The chair allows you to flow through sitting, standing, and leaning positions without the need to buy and store multiple pieces of furniture. The pivot-mounted seat provides micro-movement while remaining totally supportive while keeping the pelvis and spine in correct positions, thus relieving muscle strain by up to 90%.



FIRST TIME IN INDIA!! INNOVATIVE SOLUTIONS FOR WOODWORKING INDUSTRY

**PUR
GLUE JET**
PATENTED
TECHNOLOGY



Expert 3600



GLU JET WATERPROOF
INVISIBLE JOINTS

The clear advantages of the hybrid technology in combination with Umaboy PUR Glue Technology, make this gluing system the all rounder for craftsmen and industrial users. Visual zero joints with PUR glue allowing use in wet areas are only natural for Umaboy customers. Ultra-thin glue joints, easily equivalent to industrial laser edges, are easy to achieve with the Umaboy Glu Jet System, which also offers unrivaled flexibility.

Industrial technology for every shop with the Glu Jet System you can process PUR glue on a standard basis; just as simply as EVA glue. Strong arguments for you and your customers. Umaboy remains unequalled in terms of appearance, regardless of the material. Umaboy sets the trends for tomorrow today.

ADVANTAGES OF PUR GLUE JET SYSTEM

- High strength joint for extremely long service life.
- Water Proof Edge Banding
- Easy Cleaning of Gluepot after Using PUR Glue
- Hassle Free Cleaning
- Available in Colours
- Invisible Glue Line
- Perfect Bonding
- Anything to Anything Glue
- Resistant to heat and water, providing quality advantages in all areas of cabinetmaking.

SHREE UMIYA F-TECH MACHINES

3/C, Shiv Estate, Opp. Radhika Society, Nr. Baroda Express Way,
NH-8, Ahmedabad-26, Gujarat, India. E-Mail : info@shreeumiya.com

 **FOR SALES INQUIRY**
+91 99255 19009



Transformational furniture that saves space

As market demand for transformational, space-saving furniture increases, a new Toronto-based brand, Xtraroom, has entered the market space with the goal of providing superior furniture solutions and unmatched customer experience.

1 *Virgo wall beds can be paired with a desk, sofa, or TV stand with fireplace option.*

Through collaboration with celebrity HGTV designer, Chip Wade, whose inventive ways of redefining spaces earned him an Emmy, the company is creating innovative, space-saving furniture that raises the bar.

The multifunctional, transforming furniture targets millennials and empty-nesters and allows them to maximize their spaces and looks to redefine the way consumers visualize space. A room no longer serves a singular use or needs a defined label; a room can be used in many creative ways to enhance the liveability of the dwelling and offer innovative lifestyle solutions that allow the consumer to dream beyond the confines of four walls.

Xtraroom's US launch includes several core collections for living, sleeping, dining and

more. According to Xtraroom CEO Michael Selim, the brand is focused on creating stylish, multipurpose solutions to fill every room. From indoor to outdoor, each piece is crafted using the highest quality materials with ease-of-use a top priority.

The products are built for convenience, comfort, and durability, all the while turning heads with stylish good looks. The Orion collection, offered in three colours, allows an urban dweller to go from work to rest in under 60-seconds with the Orion console bed and desk combination.

Wall beds are taken to the next level with Virgo collection, while in addition to twin, full and queen-size offerings, Virgo wall beds can be paired with a desk, sofa, or TV stand with fireplace option.

Xtraroom manufactures, distributes and sells multi-purpose, multi-functional furniture and is known for its clean, modern lines and innovative approach.



SRICHAKRA ENGINEERING EQUIPMENTS

Hydraulic Presses



We are one of the leading manufacturers of Hydraulic Presses in India. We manufacture hydraulic presses for making Plywood, Laminates, Block Board, Flush doors, Compregs, Particle boards, Coir mattresses, Mica laminates, Pre-compressed boards, Rubber mats & Pre pressed veneers. We also manufacture Pre Press, Veneer/Laminate Bonding Press and other presses for customer specific requirements.

We at Srichakra strive to achieve customer satisfaction by producing high quality hydraulic presses which delivers best quality products with hassle free performance.

Contact us @ +91-9812029890/ 9535352928/ 9845743189

Email Id: sales@srichakraengineering.com

Address: No. 21-A1, 2nd Phase, Peenya Industrial Area, Bangalore-560058.

www.srichakraengineering.com

The 'roots' of relaxation



What looks like the roots of an enormous tree, allowing park visitors to sit, lean, or lie wherever they wish? It is a 100-foot-long piece of furniture, a multi-height bench system installed in Hangang Park in Seoul, capital of South Korea. Titled 'Root Bench', it is a winning installation by a local architect, Yong Ju Lee.

The structure is supported by a metal frame and features a top-laid wooden deck. Three different types of furniture comprise the structure: a children's chair, adult's chair, and a table – all at different heights.

Lee designed the bench using a computer algorithm, which generated its three-dimensional geometry. The algorithm used a mathematical model based on a reaction-diffusion system, which shows what happens when one or more chemicals are concentrated.

The designer has created a circular protrusion of roots that provides space for rest and relaxation. It is formed from conjoined slats of wood attached to a metal frame, and sprawls across a diameter of 30 metres from a central point in the park.

'Root Bench' allows visitors to the park to lean,

sit, or lie on its sprawling 'branches', which are elevated above the ground at different heights. While communicating each other, visitors can feel comfortable in resting space and enjoy the art piece at the same time.

The multi-height configuration means that visitors of all shapes and sizes can occupy the bench in whatever way they want, whether they are in large groups or more intimate company. Combined with the use of wood, the rhythmic form of the bench allows it to blend into its setting, blurring the boundary between artificial installation and natural environment.

To articulate spreading-out branch intensively, the reaction-diffusion system is applied to the design process. This mathematical model describes the change in space and time of the concentration of one or more chemical substances: local chemical reactions in which the substances are transformed into each other, and diffusion which causes the substances to spread out over a surface in space.

Through the algorithm from it, the overall radial form is generated with the foreground (installation) merging into its background (grass).



Sustainability through Legality



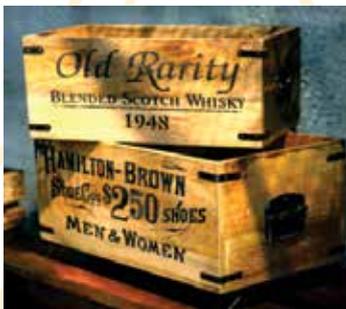
✓
Build
Reputation

✓
Secure
Business

✓
Increase
Revenue

VRIKSHTM India's Timber Legality Standard Assessment | Verification | Certification

- Become compliant with CITES, EUTR and other International Timber Regulations.
- Get distinct stature and prominence in industry and international markets.
- Get unparalleled buyer/customer trust & product standing.
- Get availability / accessibility to legally harvested wood.
- Ship goods anywhere with Vriksh Shipment Certificate*.



550+
VRIKSH
Compliant
Companies



VRIKSH
Standard is
Accepted
Worldwide

VRIKSH
Shipment
Certificate is
CITES approved



9000+
VRIKSH
Shipment
Certificates
Issued



**Vriksh Shipment Certificate conforms to the CITES requirements and is solely issued by EPCH in lieu of CITES Permit. Certificate mandatory for all shipments of products of two Dalbergia species (Rosewood and Sheesham).*



Contact **EXPORT PROMOTION COUNCIL FOR HANDICRAFTS**
Tel: +91-11-26135256/57/58 (Extn. 134, 137) or write in to vriksh@epch.com

Application form available at
www.vrikshindia.in

Put design back in the designer



By Kuruvilla Kurian

Every designer in India has faced the common customer question: ‘Do you use Hettich?’ This is followed by a string of queries on plywood grade, paint thickness and, by the end of the conversation, designers are left wondering whether it’s them or the customer who’s the expert.

The internet age and the awareness building by component manufacturers have led customers to go on a research spree, undercutting the knowledge, expertise and years of experience of designers.

Compare this to an industry like automobiles, where no car or scooter buyer asks about the grade of steel, the brand of spark plugs, or why the tyres are MRF and not Goodyear.

Designers have had a knee jerk response to the onslaught of educated customers by falling in their trap of breaking down interiors into components. This has led to the commodification of the designer’s expertise and the resultant loss of being able to add true value.

In the process, designers have become component integrators and not true designers. Wardrobes and kitchens, for example, are about meeting storage requirements that need to transform into functional designs and layouts.

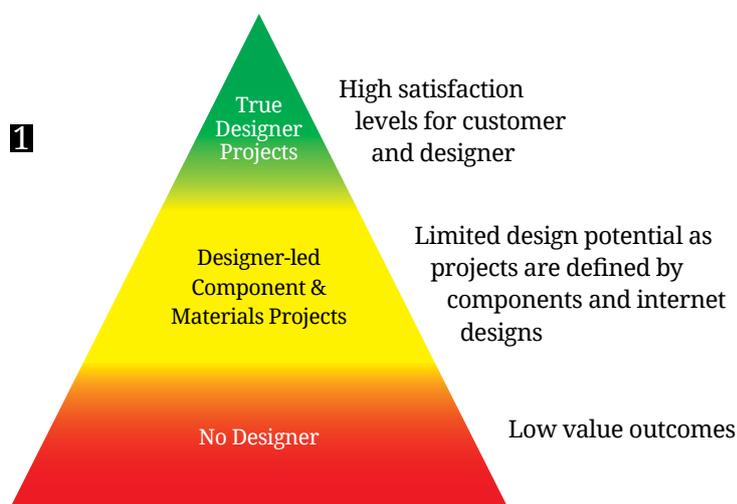
Interiors are nowadays over-engineered and expensive because of customer-driven material specifications. The downward spiral of customers into component and material discussions make it difficult for designers to have meaningful customer conversations on storage needs and design.

Designers with a long-term plan and vision will stay true to their design and requirements’ commitments with customers. The only way to stay true to this is to move up the value pyramid and rigidly stay with customers on the discussion of design, aesthetics and functionality.

Designers manage delivery and expectations by using a professional product supplier of complete wardrobes and kitchens. Customers’ concerns about material and components are addressed by the reliability of the product companies –designers should not get boxed into component discussions.

1 There is a clear path for designers to move up the value chain: design, aesthetics and functionality.

Value Pyramid of Designer’s Projects



Product companies also enforce a set of working standards and discipline which helps the designer to quickly turnaround their projects, helping them execute a much larger number of simultaneous projects.

Value Opportunities & Challenges

Project Type	No Designer	Designer-led Components & Materials projects	True Designer Projects
Customer Drivers	Budget	Internet inspired designs with branded components	Design, Aesthetics & Functionality
Materials & Hardware	Lowest Price	Branded Components	Trust in branded provider's quality.
Projects executed by Designer	NA	1-3 per month	5-8 per month
Designer's Earnings per Project	NA	Medium to High	Medium
Overall Impact on Designer	NA	Medium Income	High Income + Design Satisfaction
Examples	Customer purchases raw materials + carpenter site work	Customer Specified Components: Hinges: Hettich or Hafele Plywood: Greenply or Century Ply Coatings: "Duco" Paint	Designer Collaborated Integrated Products: Wardrobes: Aristo or Decopad Kitchen: Nolte or Hacker

The writer is a partner in Bengaluru-based Aristo India. He may be contacted at kuru@aristo-india.com.



Spray System from Germany to Enhance Edge Finish Quality

- 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.



Release agent, antistatic coolant and cleaning agent

Visit us at **DELHIWOOD 2019**
Hall 14, Booth No D 416



100% Riepe®-Spraying Systems
+100% Riepe®-Chemical Products
+100% Riepe®-Quality Control
= 100% Success

Thinking big about sustainable construction

MIT class designs a prototype building to show that even huge buildings can be built primarily with wood



1



—Courtesy: MIT News

The construction and operation of all kinds of buildings uses vast amounts of energy and natural resources. Researchers around the world have therefore been seeking ways to make buildings more efficient and less dependent on emissions-intensive materials.

1 The structure envisages massive beams made from layers of wood veneers laminated together (LVL), made into panels 50 feet long, 10 feet wide, and more than 6 inches thick.

Now, a project developed through a class at the Massachusetts Institute of Technology (MIT) has come up with a highly energy-efficient design for a large community building that uses one of the world's oldest construction materials.

For this structure – called “the Longhouse” – massive timbers made of conventional lumber would be laminated together like a kind of super-sized plywood.

The design will be presented this October at the Maine Mass Timber Conference, which is dedicated to exploring new uses of this material, which can be used to build safe, sound high-rise buildings, if building codes permit them.

Mr John Klein, a research scientist in MIT's architecture department who taught a workshop called ‘Mass Timber Design’ explains, “In North America, we have an abundance of forest resources, and a lot of it is overgrown. There's an effort to find ways to use forest products sustainably, and the forests are actively undergoing thinning

processes to prevent forest fires and beetle infestations.”

How safe?

People tend to think of wood as a suitable material for structures just a few stories high, but not for larger structures, Klein says. But already some builders are beginning to use mass timber products – a term that basically applies to any wood products much larger than conventional lumber – for bigger structures, including medium-rise buildings of up to 20 storeys.

Even taller buildings should ultimately be practical with this technology, he says. One of the largest mass timber buildings in the US is the new 82,000-square-foot John W. Olver Design Building at the University of Massachusetts at Amherst.

One of the first questions people raise when they hear of such construction has to do with fire. Can such tall wooden structures really be safe? In fact, Klein says, tests have demonstrated that mass timber structures can resist fire as well or better than steel.

That's because wood exposed to fire naturally produces a layer of char, which is highly insulating and can protect the bulk of the wood for more than two hours. Steel, in contrast, can fail suddenly when heat softens it and causes it to buckle.

DESIGN & FINISHING

Klein explains that this natural fire resistance makes sense when you think about dropping a lit match onto a pile of wood shavings, versus dropping it onto a log. The shavings will burst into flames, but on the log a match will simply sputter out. The greater the bulk of the wood, the better it resists ignition.

Bigger structures

The structure designed by the class uses massive beams made from layers of wood veneers laminated together, a process known as laminated veneer lumber (LVL), made into panels 50 feet long, 10 feet wide, and more than 6 inches thick.

These are cut to size and used to make a series of large arches, 40 feet tall to the central peak and spanning 50 feet across, made of sections with a triangular cross-section to add structural strength.

A series of these arches is assembled to create a large enclosed space with no need for internal structural supports. The pleated design of the roof is designed to accommodate solar panels and windows for natural lighting and passive solar heating.

Each arch tapers and widens along its length, because not every point along the arch will be subject to the same magnitude of forces. This varying cross-section depth both expresses structural performance while encouraging materials savings.

The arches would be factory-built in sections, and then bolted together on site to make the complete building. Because the building would be largely prefabricated, the actual on-site construction process would be greatly streamlined, Klein says.

Whereas the production of concrete, used in most of the world's large buildings, involves large releases of greenhouse gases from the baking of limestone, construction using mass timber has the opposite effect, Klein says.

While concrete adds to the world's burden of greenhouse gases, timber actually lessens it, because the carbon removed from the air while trees grow is essentially sequestered for as long as the building lasts. "The building is a carbon sink," he says.

One obstacle to greater use of mass timber for large structures is in current U.S. building codes, Klein says, which limit the use of structural wood to residential buildings up to five stories, or commercial buildings up to six stories. But recent construction of much taller timber buildings in Europe, Australia, and Canada — including an 18-story timber building in British Columbia — should help to establish such buildings' safety and lead to the needed code changes, he says.



Eternspace AR (Augmented Reality) app enables you to put customised furniture in the designated place and check for its suitability in all its entirety, dimensions, colour, textures, style and natural aura and allow customers to make changes and bring changes back to manufacturers table for considering it.

AR View of 3D Kitchen in Real World



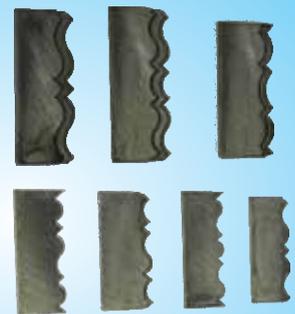
Contact Details

Sripad P V
Director
Eternsoft Innovations Pvt Ltd
www.eternsoft.com
sripadpv@eternsoft.com
T: +91 7022714246

(Sales Partner)
S G Muralidharan
Director
Atrogo Technologies Pvt Ltd
murali.sg@atrogo.com
T: +91 9731111278

BIRAMHA MOULDING BLADES

आपके डिज़ाइन के अनुसार उपलब्ध हैं



Price:

Low Carbon Steel. Rs 50 / inch

High Speed Steel. Rs 100 / inch

Dealers Wanted

BIRAMHA MACHINE TOOLS

email : biramha@gmail.com

whatsapp : +91 98659 54149



- Picture: PureAdvantage

A call to composites

Be they natural or man-made, their flexibility and unique material properties are opening up a whole new world of possibilities for manufacturers, architects and designers

You probably don't know it but the bones in your body are made from naturally occurring composite material. They are made from a hard, but brittle material called hydroxyl-apatite, and a soft and flexible protein material called collagen.

Collagen on its own it would not be strong enough to support the body as a skeleton, but when combined with the hydroxyl-apatite, it gives the bone the properties it needs.

Most buildings are also made of a composite material. Although the word "composite" may sound techie, it's really just an umbrella term to describe materials that have been put together to make another substance that is

superior than the original form in some way – for example making it stronger, easier to handle or more fire resistant.

Composites that you will have heard of (but perhaps didn't realise were composites) include bricks made from mud or clay that are then reinforced with 'straw' – a man-made composite which has been in common use for thousands of years.

Steel is also a kind of composite, commonly known as an alloy, which is made by combining iron and carbon. It has been in use as a building material since the late 1800s and became popular for building skyscrapers, thanks to its strength and durability. ▶

1 Pellet 'dice' is used in the creation of wood-fibre reinforced plastics, which are now widely used by the automobile industry for the production of lightweight but strong bumpers, brackets and many other parts.



AVON TRAY

Distinct, Unique and Functional

Currently Available in :
Easy Base Pull Out, Magic Corner (Universal)
Eva Junior and Tendam Units (Pantry Pull Out)



Manufactured & Marketed by :

MKB INDIA INC.

Khasra No. 1220, Near Surya Dhaba,
Rithala, Delhi-110085

Mob. : +91 99999 05207

www.sparkletop.net



Another example is ‘concrete’, which is made from small stones or gravel combined with cement and sand to create a material which resists being squashed under pressure better than any of those things would on their own.

Concrete has been at the heart of many impressive feats of engineering, but its environmental credentials are now coming under scrutiny, prompting industry to look at which other composite materials have the potential to become as mainstream as concrete and steel.

Modern materials

The biggest advantage of modern composite materials is that they are light as well as strong. Composites also provide design flexibility because many of them can be moulded into complex shapes.

“**Wood is a composite of cellulose and lignin. Long fibres are held together by lignin. Fibres give wood its strength while lignin is the glue that stabilises them.**”

This means that composite materials are increasingly replacing traditional metallic components in several industrial applications, such as aerospace engineering, construction and the automotive and rail industries.

In the latest twin-engine wide-body jet airliners developed by European aerospace manufacturer Airbus for example (the A350 XWB) over 50% of the aircraft’s structure is made from composites!

The construction industry has also been revolutionised by the adoption of man-made composites. Glass reinforced plastic (GRP) is commonly known as fibreglass and has fast become the material of choice for the demanding building and construction industry.

The combination of the high-strength glass fibre and highly-resilient plastic ensures that it is strong, light weight and both chemical- and corrosion-resistant. It can also be produced with phenolic properties for use in high-risk areas and does not conduct electricity.

Touch wood

Wood too is a composite material made of cellulose and lignin. The long fibres of cellulose (the reinforcement) are held together by the lignin. The fibres give wood its strength, while lignin is the natural glue that binds and stabilises them.

Timber from various species is easy to mill and install, durable and low maintenance, and can be used to create profiles, frames and structural alternatives to steel for applications such as stairs, walkways, structural treads and ladder systems.

Today wood has become the material of choice when there is a need to raise performance levels, address design limitations, or develop new solutions that are designed for the future.

Although woody can initially be more expensive than traditional materials, it’s not just the initial outlay costs that one should consider when deciding on material for any project.

Especially in housing construction it’s important to consider the whole lifecycle of the material and all its associated costs, including installation, how long it will last, and what kind of maintenance (if any) it will require to keep it functioning and looking its best.

If it’s only wood “look” you need – such as for decking or cladding – then wood plastic composite (WPC) has come a long way in the past few years, reflecting the beauty of natural and exotic hardwoods. If keeping labour costs down is a key priority, there are some innovative products out there that can help.

One of the major inhibitors to the uptake of composites in new sectors until now has been the lack of appropriate regulations, codes and standards for structural and non-structural applications. But once these are in place, the growth opportunity for natural composites is phenomenal!



PT. DEWATA INDUSTRINDO FORESTRY

WOOD WORKING

DIF is one of the company of Dewata group, Indonesia

We Produce Veneer, Plywood, Door Jamb, E2E Sawn Timber Sizes and Deck Wood for India, Japan, Europe and Nepal market since last 3 years.



Our product Range:

- >> Keuring Face veneer
- >> Keuring Plywood
- >> Door Jamb / Window Jamb
- >> E2E Sawn Timber Sizes
- >> Deck wood / Wooden Tiles

FACTORY :

JL. RAYA BABAT-JOMBANG, KM10 KALEN, KENDUNGPRING, LAMONGAN, JAWA TIMUR, INDONESIA

Mob: +62 8123167777 (Enrico)
enricotjahjono@hotmail.com

Mob: +62 81230779797 (Kennedy)
kennedyramli@gmail.com

Mob: +91 9830012436 (Abhinandan)
Abhinandan.jjwala@gmail.com



Visit us at
DELHIWOOD 2019
Hall 14, Booth No D 416



FE-MA-TECH
Your Partner for Machines and Hot Melt Adhesive Systems



PUR Bag Melter from Germany

- Stand Alone machine. Does NOT require Gas or Dry Air
- Can be connected to ALL Types of Edge Banding Machines
- Changeover to PUR glue from EVA and Vice Versa in few Minutes
- No Flushing or Cleaning Required. Just switch ON/OFF PUR when required.
- Easy touch screen control. Auto/Manual Mode.
- Use only as much Glue as required for the job – No More, No Less
- Maximum Utilization/Minimum Wastage of PUR Glue



Shreepal Trade Impex, H.O.: #5, Kamala Arcade, Plot No. A 3+4, Sector-30, Opp. Rabale Railway Station, Rabale-Gothivali, Rabale (West), New Mumbai - 400 701, Maharashtra, INDIA. Tel: +91 7208016114 / 5 E mail: info@shreepal.in **Bengaluru:** +91 80 43715154 / 55 | **Haryana:** +91 80762 29237



1

Polymer family and UV curing

This is the concluding article in a three-part series on wood coating and painting published by *WoodNews*. To read the first two parts, check out the Sept-Oct 2018 and Nov-Dec 2018 issues of the magazine.

By Dipak Chaudhari

Polyurethane (PU) is a polymer wherein the repeating unit is a urethane linkage, which is obtained by reaction of poly-isocyanate with compounds containing two or more hydroxyl groups per molecule. Aliphatic (relating to organic compounds in which carbon atoms form open chains) isocyanates are used in outdoor applications for light fastness.

PU is very popular in wood substrate as it has excellent properties such as adhesion, hardness and flexibility, chemical resistance, finish quality, gloss and gloss retention, and durability in interior and exterior applications.

Urethane oils and alkyds are single-pack resins that dry by auto-oxidation and do not have any free isocyanate group. Drying oils react with polyols such as glycerol to form a mixture of mono- and di-glyceride. Hence these materials are not very sensitive to humidity.

Urethane oils are highly viscous, fast drying in nature. Urethane alkyds are fast drying, chemical resistant and have low acid value, but have a yellowing tendency.

Two-pack PUs are pre-polymers having NCO group. The drying time is reduced by adding a

catalyst. This system is useful for clear coatings only and is used for fast setting PU applications.

In a two-pack polyol type urethane system one pack contains pre-polymer having NCO group and second pack containing hydroxyl terminated compound. Physical properties of PUs depend on type, functionality, ratio of the reactants used, and the curing conditions.

Properties and uses

Urethane alkyds are chemically less reactive, low acid value, show yellowing outdoors. Urethane alkyds are modified with silicones and offer superior resistance to weather and chemicals.

Moisture cured PUs possess high abrasion resistance, good solvent resistance and high flexibility and high gloss. PU coatings are known to possess excellent adhesion on all substrates, excellent gloss, abrasion resistance coupled with excellent resistance to a range of chemicals. In certain cases the resistance properties are superior to those of epoxy resins.

Urethane oils are used in marine coatings, and paints for boats, as metal primers and finish coats for chemical-resistant maintenance systems. Moisture-cured

1 PU finishes offer clear finish and clear gloss.

Wood craft expertise. For now. Forever.

PRIMA series Premium range of Solid Wood Machinery

From **Jai** For now. Forever. **WudPro**

Be better equipped for specialized wood-work. **Beat the competition, win the markets**



You need precision m/cs with special functions & features for specialized craft jobs in solid wood. You need JAI's Prima m/cs - to be precise.

HDHQ Double Side Surface Planer J-4630 (S) with Spiral Cutter Roll
Powerful m/c with good stability & shock absorbing capacity, improved cutting quality & variable feed speed.

Straight Line Rip Saw J-1163 (Bottom Cutter)

A unique m/c, much safer than upper rip saw due to its patented exclusive engineering design & parts.



Dovetailer Auto J-1950 (A)

Efficient & economical. With high spindle speed. It processes tenons/mortises simultaneously for accurate jointings.



Round End Tenoner J-1941

Heavy duty & high-tech m/c for high productivity. Gives horizontal, vertical & 45° tenon axis angles.



Oscillation Mortiser J-1940

Highly reliable mortiser workability. A m/c with more features, better engineering.



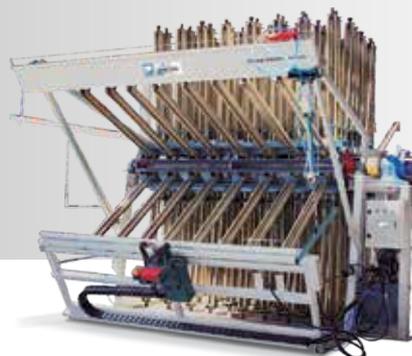
Wide Belt Sander J-1300 R-RP

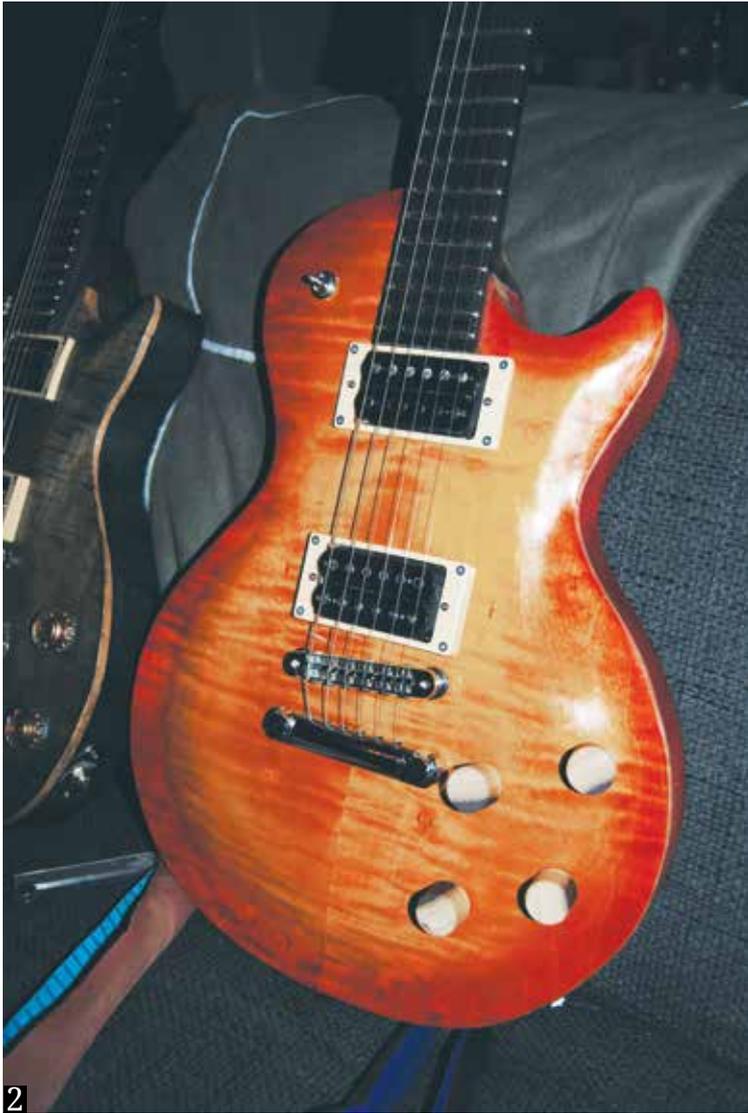
Fine sanding of wood & veneer for quality finish of your job. With high-end electric control system & engineering features.



Clamp Carrier J-1408 (H) - Hydraulic

Super heavy duty clamps provide powerful, uniform and fast clamping. Minimize operator fatigue & maximize productivity.





2 This guitar was completely finished in Shellac, giving it a soft glow without being high gloss.

urethanes are useful good abrasion resistance, hardness and chemical resistance.

In PU coatings polyester containing hydroxyl group are cross-linked with di- and tri-isocyanine. The cured film of PU is hard, flexible, has excellent gloss and gloss retention with smooth finish. A wide range of PU coatings are available according to durability properties and cost. Fast setting PU is also available, but it is less flexible.

Exterior durable PU coatings are available with respective sealers. Exterior PU grades are more flexible, more resistance to ultra-violet (UV) rays, and non-yellow grades. Clear and pigmented finishes are available in all shades, which are widely used in durable furniture industries.

Unsaturated polyester

The unsaturated polyester resin is dissolved in styrene and an inhibitor is added to the solution to prevent premature crosslinking or gelation. Just before application a hardener is added to the system that induces co-

polymerisation with styrene molecule at the double bonds present in the molecule.

Methyl ethyl ketone peroxide is used as hardener. Cobalt naphthenate is used as promoter to accelerate the reaction.

Unsaturated polyester resins make multi-component systems which cure at room temperature when the components are mixed in the required ratio. During curing polyester resin films suffer from inhibition by oxygen in air, therefore the top surface of the film remains tacky.

Otherwise these films have excellent clarity and good chemical resistance and high film build suitable for wood finishing.

Polyester consists of resin activator and accelerator. High thickness can be applied in one coat gives excellent gloss and gloss retention with water and alcohol resistance film. Buffing will gives excellent glossy finish.

Water-based coatings

Water-based coatings are finding increasing use in industrial finishing The coatings use water as thinning solvent and offer easy cleaning of equipment using water, thus reducing environmental damage during application and cleaning up activity and saving in cost of cleaning.

Water-based finishes are actually made up of droplets of solvent-based finish (usually acrylic or polyurethane) and a solvent (usually glycol ether) with water functioning as a thinner.

Water-based finishes cure by coalescing – the droplets of finish move closer together and interlock as the water evaporates. Water-based finishes give away minimal solvent fumes, are easy to clean, and have good scuff resistance; but they may raise the wood grain and offer moderate resistance to water, heat and solvents.

Water-based emulsion

Alkyd dispersions available in the market are a substitute for solvent-based alkyd, which come closer to drying varnish-type coatings in terms of performance gloss and durability.

Emulsion-based cured films are porous, permitting the film to “breathe”, so the chances of lifting or blister of the film are reduced. Such emulsions are generally used in exterior coatings with pigmentation and fungistatic agents.

PU dispersion

Better adhesion and impact resistance, better ▶

HealthDesk HEIGHT ADJUSTABLE TABLE TAKE A STAND FOR YOUR HEALTH !



2 MOTOR, 3 STAGE
IS ET 2M 3S



SINGLE MOTOR, 2 STAGE
IS ET 1M 2S R



BACK TO BACK, 3 STAGE
IS ET 4M 3S B2B



MANUAL, 2 STAGE
IS MT 2S



3 MOTOR, 3 STAGE
IS ET 3M 3S L

• OUR PRODUCT RANGE •



Access Flap



Monitor Arm Solutions



Drawer Solutions



CPU Solutions



Folding Tables



Other Office Solutions

VISIT US AT DELHIWOOD
HALL 11 STALL NO.: G732



3

3 New UV-curable coatings prevent fouling, as in this very demanding maritime environment.

chemical and solvent resistance, balance flexibility and hardness, improved water resistance. According to the above properties water-based PUD is widely used in wooden parquet flooring, musical instruments, exterior doors and windows, and wooden components in cars.

The use of two-component waterborne PU coating is increasing in wood finishing industry owing to its remarkable properties – faster drying time, faster re-coatability, excellent adhesion to wood surface, excellent resistance to solvent, water and chemicals, excellent abrasion resistance, impact resistance, weathering resistance, flexibility and toughness.

UV curing

A UV-cured coating requires the ultra-violet wavelength in light to initiate a reaction, transforming a viscous product into a solid product in few seconds. The reactive ingredients include photo-initiators, oligomers, monomers and other miscellaneous non-solvent products.

4 Wood surfaces coloured with UV-cured coating, made with Clariant UV pigment preparations.

Oligomers are high molecular weight polymers versus the lower molecular weight polymer monomers. Both react with photo-initiators exposure to UV light. The UV viscous material cures chemically, cross-linking its ingredients to form an extremely durable solid finish.

This transformation occurs rapidly, usually within a second. These two important benefits – durability and curing speed – coupled with its 100% solids, no solvent or VOCs, make it a very popular finish. Let us examine each benefit more closely and compare with traditional finishes.

Many benefits

Curing speed is a very attractive benefit of a UV-cured product. Traditional products require a drying or curing time of several minutes to several hours to harden sufficiently. The UV curing time of less than a second shortens production lines and packing time.

Decreasing time in these two areas saves a significant amount of money and is an important consideration when making a decision to purchase the application equipment.

Traditional finishes need to dry completely prior to wrapping in protective plastic or cardboard boxing. Packing too early will emboss the texture of the plastic or other packaging material on the soft finish.

UV-cured finish is completely hard and can be packaged after application. UV finish is exceptionally durable. Chemical, abrasive and impact resistance tests are superior.

UV finishes are found on pre-finished hardwood flooring, all types of furniture and other pre-finished sheet goods. The benefit of having no VOCs allows companies to comply with environmental regulations while increasing production.

As described above, there are various type of coatings available in the market. Selection of the right choice of coatings with correct process can save a lot of time and energy and provide quality and cost-effective finishes.

– The writer is a wood coating and finishing expert and consultant based in Pune. He can be contacted at woodfinishingconsultant@gmail.com.



4

– Courtesy: European Coatings

nova si 400

Panel Saw

- 10 years warranty on sliding table.
- Circular saw with 45° tilting.
- Scoring unit adjustment by memory pins.



gabbiani p 75

Beam Saw

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



minimax me 20

Edge bander

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



minimax me 40 t

Edge bander

- Premilling.
- Partial corner rounding.
- scraping.



olimpic k 360 r

Edge bander

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



stefani kd

Edge bander

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



stefani xd

Edge bander

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



morbidelli m100

CNC machining centre

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



morbidelli cx 200 r

CNC drilling centre

- +80% of Productivity: Two Drilling Heads.
- Zero play during machining with new RO.AX technology.
- Machining cycles of up to 600 pieces/shift.



minimax fs 41 es

Planer-thicknesser

- An optimal planing with minimal effort.
- Professional, massive and compact.
- Cast iron thickening table lifts on 4 spindles.



minimax cu 300 c

Universal combination machine

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



minimax tw 45 c

Spindle moulder

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



profiset 60

Throughfeed multi spindle moulder

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



dmc sd 60

Wide belt sander

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



compact 3 r

Spraying machine

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





Double-end tenoning from E-Chain

Established in 1993, E-Chain Machinery Co. Ltd. is a leading Taiwanese manufacturer of a wide range of wood-working machinery. It has grown since inception to establish manufacturing facilities in Taiwan, China and Vietnam.

It offers an extensive range of wood-working machinery, complete wood-working solutions in the form of turnkey projects, and acts as purchasing agent of local machinery for distributors around the world.

E-Chain Machinery has accumulated extensive experience in the provision of complete wood-working solutions in the form of turnkey projects, having led more than 280 (and counting) such projects across a wide spectrum of genres and sizes.

E-Chain Machinery operates a world-wide sales network through mutually supportive relationships with distributors in more than 30 countries. Through years of collaboration with reputable distributors, its machines have

rapidly found their way to end-users all around the world.

E-Chain Machinery insists on paying dedicated attention to after-sales service, turning valuable customer feedback into ongoing incremental innovations, complemented with a production system valuing stringent precision both on the quality of each individual component and in the assembly of its machines.

E-Chain Machinery's specialisation lies in the double-ended tenoner category of woodworking machinery, which gives the company a competitive advantage of custom-building machines to always achieve the best fit possible between customers' requirements and machine functionality.

Any E-Chain double-end tenoner can be custom-built with machine frames of different sizes to house up to 12 working units, and of various working widths and working thicknesses.



THE SMART BIG THING IN INTERIOR DESIGN FENIX NTM BY ARPA NOW IN INDIA

Discover fenix, the new generation of smart materials for interior design created by arpa industriale for a range of vertical and horizontal interior design applications: kitchens, hospitality, healthcare, transportation, bathrooms and furniture.

With low light reflectivity, the surface is extremely opaque, anti-fingerprint and pleasantly soft to the touch. Superficial microscratches can be repaired thermally.

Made in Italy. Since 2013.

PRODUCTS USED IN THE IMAGE ARE FENIX NTM.
BLU FES - F 0754 ROSSO JAIPUR - F 0751.



visit us at our exclusive
BOOTH No. H11 H807



13TH - 16TH MARCH 2019
India Expo Centre & Mart,
Greater Noida,
India.

Aryamman Interior Solutions Pvt. Ltd.

B-19, Pravasi Industrial Estate, Next to Durian Estate, Off. Aarey Road,
Goregaon (E), Mumbai - 400 069.

T: 022-29277007 / +919321576317 | W: www.aryamman.in | E: crm@aryamman.in

AUTHORISED DISTRIBUTORS FOR INDIA



EternSpace: AR tool is for furniture sales too



Ever thought of installing customised furniture virtually well before manufacturing them? Yes, here is the opportunity to make your customer realise his dream furniture placed virtually in his home/office well before the furniture is manufactured!

EternSpace is the App which enables you to put customised furniture in the designated place and check for its suitability in all its entirety, dimensions, colour, textures, style and natural aura, and allow customers to make changes and bring changes back to the manufacturer's table for considering it.

The process brings in enormous savings in terms of repeat manufacturing of parts, savings from logistics for dimensional issues, choice for customers to fullest satisfaction, and increases sales with high rate of conversion.

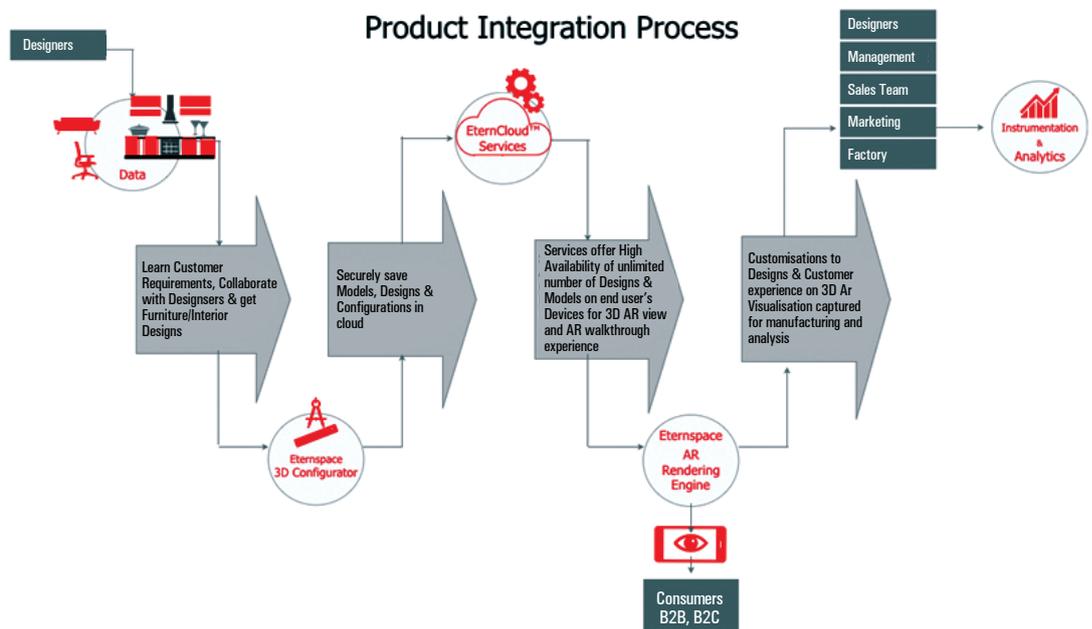
Eternsoft, a Bengaluru-based start-up, brings to the furniture market a fresh sales tool, EternSpace, on your or your customer's hand-

held devices such as tabs or smartphones on IOS and Android platforms.

Allows customers or end users of customised furniture to experience the ultimate 3D visualisation and placing them right at the place of installation, drawing their conclusions and sharing with the manufacturer well before the furniture is taken up for manufacturing. This saves a lot of man hours and hiccups in the process.

Eternsoft also brings to the table many other services such as AR-based walkthroughs, AI-based analytics and valuable customer preferences and choices. All of these only help in making valuable decisions for business strategies.

How does it work? 3D AR visualisation is a win-win for both the company and the client. Not only does it help communicate ideas precisely, it also minimises assumptions and misunderstandings, thereby saving on cost. For details visit www.eternsoft.com.



Moves effortlessly, year after year!

When furniture is fitted with Ebco Hinges

**CYCLE TESTED
OVER 80,000
TIMES**



Visit us at:
DEHI
WOOD
13th to 16th March, 2019
HALL H09, B202.
India Expo Center and Mart,
Greater Noida

Auto
Close

Soft
Close

Push
Open



Slow Motion Hinge - 3D



Cabinet Hinge



Glass Hinge Soft Close



Short Arm Hinge



270 Degree Hinge

- Widest range – over 250 variants
- For wooden, glass, aluminum shutters and special applications
- For shutter thickness from 4mm to 40mm
- Options of Auto-Close, Soft-Close and Push-Open
- Special hinges for special applications and opening angles

Contact us at 022-67837777 or info@ebco.in to make an appointment with our team.

National Display Centres: Ahmedabad: 079-26880478, Bangalore: 080-25503372, Chennai: 044-24611937, Cochin: 0484-2333394, Coimbatore: 0422-2548316, Delhi: 011-49843306, Guwahati: 09435111409, Hyderabad: 040-23557252, Indore: 0731-4040800, Jaipur: 0141-2390773, Kolkata: 033-46034171/72, Lucknow: 09506464066, Mumbai: 022-67837700, Nagpur: 0712-2221637, Pune: 020-26456787, Raipur: 07773014904, Surat: 0261-2234677



Simplifying lives.



www.ebco.in





Door security systems that reinvent access

Today, people want smarter and convenient options like remote/ selective access, and the question is no longer about who stays out of the house but who can be let in.

Häfele introduces a new perspective to home security with its integrated range of digital home security solutions that brings the most advanced technologies in digital access modes, safety features, convenient settings and much more; attempting to provoke a serious thought towards home security.

These solutions from Häfele can allow you to control multi-dimensional aspects of home access through a single locking device, as per your specific lifestyle and at the leisure of your convenience. Through this range, the company introduces five security gadgets that redefine the spectrum of security and access to homes.

Häfele's Reveal digital lock carefully scrutinizes every individual need that is required from your home security system and presents itself as the ideal answer for all those needs. This fully-loaded face-recognition lock comes with the highest standards of technology that reads over 170 points on the user's face – this means that it is highly sensitive to even the flinch of a nerve on the face and will only allow access if you exactly emulate the expression that was pre-set as your access recognition.

The Real digital door lock addresses the 'real' needs of holistic home security through its feature-rich proposition. With 4 different access modes - finger print, key pad, RFID and mechanical key this digital lock brings optimum security and more choices.

The Resize digital lock uniquely combines incomparable technology with an aesthetic design, bringing the much desired ornamentation to a door while also securing your home with planned access. Owing to its singular design, the lock can combine its existence with any preferred lever handle as per the user's choice. This brings in a whiff of customization while designing the security needs for your door.

The Replace digital lock is designed to bring a seamless transition from traditional mechanical locks to sophisticated digital security systems. This lock replaces the limitations of the traditional lock-and-key with the innumerable possibilities of a tech-savvy digital lock. With 3 different access modes-key pad, RFID and mechanical key the lock addresses principal security needs; and the possibility of combining two access modes neutralizes any chances of a break-in.

The Rebell video doorbell has an added touch of smartness and is a Wi-Fi enabled solution that can be integrated into a smartphone through a feature-packed App that allows the user to remotely manage all functions. This means that the user could remotely see or even talk to the person standing at his doorstep.



FLEX IBILITY TY

BIESSE.COM

RAPID RETURN ON INVESTMENT.

Compact, versatile boring machine which combines flexibility and performance, with a reduced footprint. It represents the perfect entry-level flexible boring solution for the non-standard production needs of large companies, for the manufacture of small batches for third parties, and for those requiring just-in-time flexible production.



Skipper V31

VISIT US AT DELHI WOOD 2019
H15 C308, H14 C310

 **BIESSE**



WPC boards from Hardy Smith for carcass applications

Carcass becomes a very critical application when it is placed adjacent to a wall. Depending on the atmosphere and weather pattern of surroundings, seepage/moisture could accumulate in the walls that in turn could affect furniture that is placed close to it.

Transpiration results in the evaporation of water from the exposed surfaces of a piece of furniture in a room where water molecules are pulled up the wood body exerted by evaporation at the exposed surface of furniture. The Indian system for floor cleaning uses mopping with water and leaves water particles on the furniture panels that exacerbates this situation and results in well-known problems such as decay, fungus, delamination of HPL, bubbling, bending, and delayering.



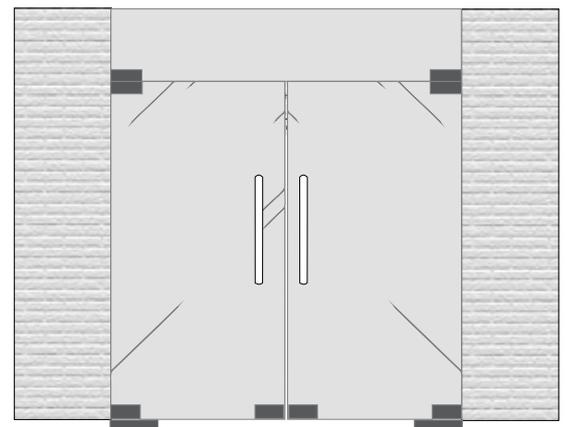
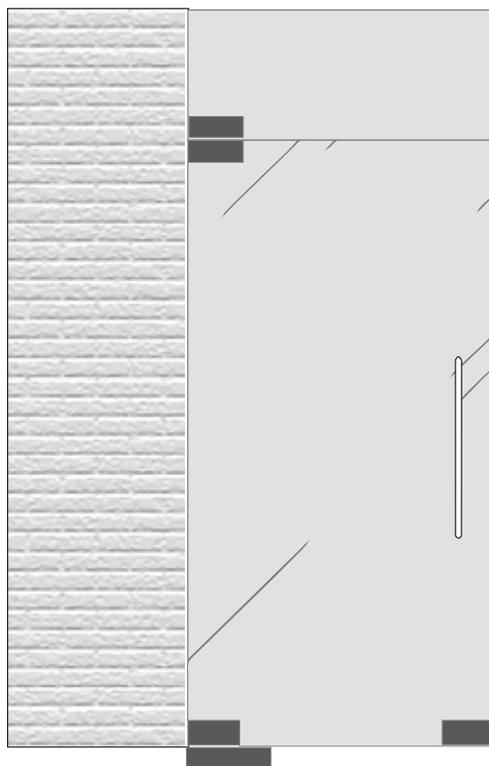
All this could lead to termite attacks from within the furniture body resulting in damage to wardrobe carcasses, kitchen carcasses, overhead units, storage units, shoe racks, etc.

WPC boards from Hardy Smith provide an ideal solution to avoid such problems. The product is completely waterproof and termite proof, and is a medical grade product that is recyclable. It can be used for heavy seepage areas as there is no water absorption resulting less infection and pests.

www.wpc-centre.com

Glass patch fittings by Hettich

- ▶ 1 Overpanel Patch with fixing plate
- ▶ 1 Top Patch
- ▶ 1 Bottom Patch
- ▶ 1 Patch Lock



- ▶ 2 Overpanel Patch with fixing plate
- ▶ 2 Top Patch
- ▶ 2 Bottom Patch
- ▶ 2 Patch Lock

PRODUCTS AND PROCESSES



Patch fittings, a very essential component of glass hardware, helps to fully define the system by its mere presence. Patch fittings by Hettich is an impressive ensemble of a wide variety completing the design needs of glass assemblies. The idea is to incorporate a fusion of a collaboration of creative design options with exceptional and sound technology.

All Hettich fittings are based on a technical-savvy system with the patch fittings running in a variety of top patch, bottom patch, over panel patch, over panel side patch, over panel patch with fixing plate, corner patch lock, centre patch lock, counter lock for centre patch lock.

The skilled craftsmanship employed in the range coupled with superior quality guarantees a long service life and lasting excellence. These patch fittings are suitable for 8 to 12mm glass thickness with elegant stainless steel finish. The variants in the over panel patch fittings like top patch, patch lock solutions and bottom patch provide easily for assorted arrangements with corner fittings for different angles. The over panel patch is used in case of glass to glass connector without side panel. The over panel side patch caters to glass to glass connection with side panel whereas the top patch with fixing plate appropriates to wall/wood to glass connection.

With patch lock solutions, a glimpse at the assortment of corner patch lock, centre patch lock and counter lock for centre patch lock a complete range is provided. The system completely complies with single door and double door with over panel and side panel in different arrangements to suit all possible divergent needs.

The patch locks by Hettich complete and reinterpret the definition of visual luxury backed by technical prowess.

PARTHA GHOSH CONSULTANTS

BANGALORE, INDIA; +91-9900 222 770 SINCE 2005



VERTICAL CONSULTANCY FOR INDUSTRY: FURNITURE RETAIL AND MANUFACTURING

OFFERING TWO DECADES OF EXPERIENCED CONSULTATIONS ON:

- conceptualizing the furniture division in the group/ parent company.
- Interviewing and establishing the core team for the business.
- Establishing the business plan for next years and introduce periodic reviews.
- Establishing the operational, sourcing, design, warehousing teams with their processes- which have made in a process flow chart from my experiences in my past consultations. For an existing setup, we review the management teams according to the organization tree, review the processes first, then review the skill sets of the present team members. On completion of the same we propose the rectifications required for the desired goal set.
- Building up manufacturing unit (with the machine providers) and also integrated cluster outsourcing agencies through out the country and if required agencies in Malaysia, China, Vietnam etc.
- Training the respective departmental heads (team leaders and the team members) and later to integrate to the core business lines as per business plan.
- Establish front end (sales) team and help them get integrated to the main business plan.
- Help branding and marketing teams to establish the requirements as per the business plan.
- Final business integration between front end and back end.
- Help in rolling both pilot project and launch the brand.

www.parthaghoshconsultants.com

CONTACT:

pghosh06@gmail.com

parthaghoshconsultants@gmail.com

VISIT: <https://www.youtube.com/watch?v=780vqVPTUSc>



Easy. Easier. Vacuum.

Grip it, move it, set it down – Schmalz's vacuum lifters make machine loading and unloading easy, fast and ergonomic. Schmalz's vacuum clamping equipment can be positioned easily and precisely and quickly replaced when require.

WWW.SCHMALZ.COM/JUMBO

T: +91 020 4072 5500

Schmalz India Pvt Ltd · EL38 J Block MIDC Bhosari Pune 411026 · schmalz@schmalz.co.in

Innovative display storage system from Salice



PIN, Salice's new revolutionary display storage system is another superb example of the company's design-led product range. It offers a flexible and creative arrangement of bottles, knives and shelves. Available in three versions, Pin Wine, Pin Knife and Pin Shelf, it allows the most flexible and creative arrangement of bottles, knives and shelves.

The elegant design and highly refined Pin has streamlined aesthetics and easy, quick and intuitive assembly. The Pin brackets can be moved simply and positioned anywhere with an ingenious fixing system that is strong and stable.

This system is available in aluminium and titanium finishes, complementing all kinds of room settings, furniture and applications.

For wine bottle storage, Pin offers many configurations including Pin Wine supports, which are fixed in tiered pairs, each carrying up to three bottles.

Furthermore, the Pin Wine brackets 'made to measure' option enables standard, small and even 'magnum' bottles. The Pin Knife system is fixed on a wood panel, which presents a highly functional and secure storage system for cook's knives.

Pin Shelf allows for a creative and flexible arrangement of shelves of any material, which can be positioned at any desired height, and can also be used with freestanding bars. Available in steel and titanium finishes, the new Pin display storage system complement all kinds of room settings, furniture and applications.



WOODNEWS

WoodNews thanks the various companies that have submitted information. For any editorial submissions, please contact Mr. Dhananjay Sardeshpande, Chief Editor, at dhananjay@pdatradedmedia.com. The information published in *Notes and News*, and the *DelhiWood Products* section 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.

tempora F600 60.06.EL
Edgebander

FORMAT
In a class of its own.

PRODUCTIVITY, FLEXIBILITY AND USER COMFORT



Smartouch

The new smartouch control unit with 10.4" touch screen control enables a quick and easy selection and control of the aggregate as well as the complete monitoring of all machine functions.

Short warm-up time,
quick operational readiness
Glue applicator unit processing
EVA-glue as well as PUR-glue and
easy-clean



edge thickness: 0,4–6 mm
workpiece thickness: 8–60 mm
feed speed: 10 m/min.

Complete edge processing

The perfect "finish" –
a quality criterion



tempora F600 60.06



FELDER GROUP INDIA

CALL TODAY FOR MORE INFO +91 22 6171 4300 | www.felder-group-india.com

High-end technology for edge-band printing



Printing on edge-banding material has always been a problem area for small scale operators. Now, however, with Hymens extensive know-how about digital printing production procedures using industrial inkjet, each decor request for surface and edge can be realized in high-end quality.

incorporated in existing process chains of the decor industry, it enables an individualized mass production, the quick reaction on market trends and customer requests, a shorter time-to-market, short set-up times, lower storage costs, no material loss upon change of decor, and, last but not least, new design options with regard to register lengths, levels of detail etc.

1 The digital edge-printing line from Hymmen, the Jupiter JPT-WS, is a compact unit.

As a machine and plant engineering company with focus on the woodworking industry, Hymmen, with its extensive know-how about production procedures in the special field of industrial digital printing technology, has now come out with JPT-WS, a solution for industrial digital printing on edge belts.

On request, this is matched 1:1 to the decor of the board surface - possibly finished by the same company. Thereby, the whole line has a very compact design that succeeds in accommodating the whole technology on a minimum amount of space, without having to renounce the advantages like automatic cleaning of print heads that comes with large digital lines.

The substitution of gravure printing by digital printing provides a lot of advantages to the customers: The digital printing can be

Comparison of gravure printing and digital printing

Synthetic edges	Gravure printing	Digital printing
Inline operation possible	usual	possible
Offline operation possible	possible	possible
Usual maximum printing width	400 mm	410 mm / 205 mm / 137 mm
Loss of time due to change of decor (roller change, color change)	high	low
Loss of material due to change of decor (edge band, flushing losses..)	high	low
Color-matching/re-matching time requirement	high	low
Printing on textured material	conditionally possible	possible
Storage/roller costs	necessary	not necessary

SUPERIOR EXTERIOR GRADE WOOD BASED PLAIN / PRELAMINATED PARTICLE BOARDS



Ideal for Kitchens / Wardrobes / Doors / Lab Furniture / Carcases etc

- 1/ Highly water resistance
- 2/ Exceptionally high structural strength
- 3/ Extremely strong bonding
- 4/ Better screw holding strength
- 5/ Costs lesser than other panel products of HMR / Marine grades
- 6/ Plain board suitable for lamination / post forming / veneers / painting



Bhutan Board Furniture " WE MAKE YOUR LIVING BEAUTIFUL "

- Affordable, Comfortable, Convenient, Durable
- Eco- friendly and Ready to Assemble
- Wide range of Office and Home Furniture



Head Office:

Bhutan Board Exports Ltd.,
P.O.Box 91 Phuentsholing, BHUTAN
Tel - 00975 -5- 252703, 00975-5-253713,
00975-5-253957
Fax - 00975-5-252676
E-mail : info@bhutanboard.com

Regional Office In India:

Kolkata : 033 – 22870621 Fax : 22875309
Email : tshewangdhendup@bhutanboard.com
Bangalore : 080 – 23460931, 23460932 Fax : 080 - 41126688
Email : sgowrishankar@bhutanboard.com
Website : www.bhutanboard.com
" Distributors/ Dealers inquiries Solicited "



**5-in-1 Non Acrylic
100% Natural & Organic
Water-Based Woodfiller**



So good you would not know it was there

Timbermate Woodfiller is an interior grade wood putty, grain filler, edge filler and crack filler. When thinned slightly with water can also be used as a sanding sealer. Timbermate does not shrink, sink, crack or fall out and has an indefinite shelf life. It is non-flammable, freeze-thaw stable and can be used to the last gram.

The secret ingredient of Timbermate is tap water and has no Acrylic, Latex or Solvents. The Timbermate formula is over 85 years old and is the only genuine water-based formula in the world proving that the formulation has stood the test of time.

Visit us at
DELHIWOOD 2019
Hall 14 , Booth No D 416



Wood Putty | Grain Filler | Edge Filler
Crack Filler | Sanding Sealer



Decorative laminated and veneer doors from CenturyPly



CenturyPly (CPIL), the oldest plywood factory in India is an innovator in the wood panel industry in India. The company has now launched three new variants in its existing range of CenturyDoors with Deco laminated doors, Deco veneer and Deco reconstituted veneer doors in their premium segments decorative door vertical.

Covered with high pressure laminate (HPL) sheets, these decorative doors come with a patented glue line internal protection that provides complete protection to the doors against borers and termites. Their distinctively superior surface finish and uniform thickness make these doors an impeccable choice for all kinds of interior spaces.

These easy-to-clean doors require minimal maintenance and excellent durability provides more finesse to homes. They are also weather and scratch resistant.

Available in a variety of ranges, these decorative doors are designed to suit all the varied needs of its consumers. It is available at a very attractive price, Deco laminated doors usually come in thicknesses of 30 mm, 32 mm and 35 mm.

In addition to this, Deco natural veneer & Deco recon veneer doors are available in the competitive price for similar variants as the laminated ones. However, these doors come in thickness ranging from 25 mm to 45 mm, depending upon the consumer requirement with both sided or one sided laminate or veneer, manufactured in accordance with IS: 2202.

Some salient features of the doors are:

- High resistance to adverse climacte
- Superior surface finish
- Borer and termite-proof (7-year warranty)

Absolute Leader



For now. Forever.



**India's highest selling
Basic machines package
for all panel-process units**

Modula

■ **Panel Saws** • J-3200.in + • J-3200.in



NEW

5 Years* warranty on sliding table

■ **Curvilinear Edge Banders**

J-3000.in (Semi Auto)

Sturdily built heavy duty m/c. with precision sliding table and precise burr free cutting

Multi chamber system for max. rigidity of the double roller carriage. Telescoping cross cut fence for 45° cuts

Easy & fast saw-scoring blades changing. Smooth running & powerful saw unit



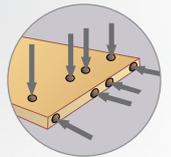
J-2000.in (Semi Auto)



Entry level Edge banding on straight & curved panels. M/cs with Euro standard features

■ **Double head Multi boring** • **J-2102.in** (Semi Auto)

Model J-2100.in (Single Head Multi Boring) also available



Horizontal & vertical Boring



Also : **J-2103.in (AT)**
Triple head Multi boring (Auto)



Easy setting with quick & precision boring. For vertical boring application double / triple heads work parallel.

Manav Media

Jai Industries

• modula@JAIindustries.com • www.JAIindustries.com

Corpo. Office : Nr. Ajit Mill Cross Rd., B/s Rakhial - Odhav Flyover, Rakhial - Odhav Main Rd, Rakhial, Ahmedabad-380 023. Gujarat, India. • Phone : +91 79 2291 1400 \ 1900



Ventura brings designer laminates from Germany

Ventura International, a leader in luxury wall surfaces, is presenting the metallic and handmade designer laminates from the German brand Wallenstein. The Wallenstein range has sensual look with rust, stone and metal surfaces.

1 (L-R) Vintage, Rust Silver and Corten Steel finishes from Wallenstein.

The Wallenstein range features authentic natural and UV-resistant surfaces. The laminates can be processed with regular commercial wood working machines. All the products are ecologically harmless and easy to recycle.

This surface design replicates aged metal surfaces in a way that makes them look convincingly real and gives viewers a new experience of a room. Its sumptuous appearance and grace will charm anyone who sees it.

Aesthetics and design here go hand in hand

with architecture and space. The iridescence of the metal and its antique patina in soft tones are mesmerizing.

These laminates are available in 2440x1220 mm, in a thickness of 1.5mm, and in Grey Stone, Rust Silver, Corten Steel, Old Messing and Vintage finishes.

These laminates are used in several applications as interior design, wall coverings, furniture and commercial space.

According to Mr. Manish Maheshwari, Director of the Delhi-based Ventura International, "The Wallenstein laminates shine through individual composition and design. The unique texture and reflective properties of the materials create special visual effects and give the surface an artistic expression." For details visit www.venturaindia.com.



www.maxondoors.com

Open the
door to new beginnings



Call Now:

+91 93425 68200 / +91 99869 62679

Mail Us:

maxondoors@gmail.com

Distributor Enquiry Solicited: Send your request to maxondoors@gmail.com

www.maxondoors.com

Premium “Prima” machinery from Jai

The handicraft industry is a very competitive market space in India and a player in this space has to be well equipped to handle all kinds of specialized woodworking requirements.

Jai Industries, one of the best names in the industry, has always been in forefront of solid wood machinery industry, since more than 50 years. What makes Jai machines stand out is reliable after sales service and spares support that is backed by a large, nationwide dealer network.

Prima Series, designed and manufactured by Jai, is a premium range of solid wood machinery within the Jai-WudPro segment. Prima machines have high-end features and are manufactured with precision engineering.

These machines are made after extensive research and trials and have proven their precision, performance and productivity on manufacturing floors all over the country.

This particular package is specially developed for units engaged in solid wood-craft business, which requires a sense of design and creativity, beside reliable, high-tech machinery with features and functions that are capable of executing those creative designs.

“Prima” helps the user carry out qualitative jobs with ease and finesse with the following range of machinery.



Straight line rip saw

This bottom cutter rip saw is much safer system than the upper rip saw as a result of the saw shaft rotating in different directions. A unique machine with patented exclusive engineering design and patented parts manufacturing, it is equipped with adjustable tables and trolley for processing wide materials thus saving time and labor.



Dovetailer auto

High speed, continuous auto tenoning make highly-finished, quality jobs at the same time, making the whole process easy. The tenoning head feeds on hard chrome plated guide rod, for maximum stability of tenoning operations and maximum wear resistance. The process also dovetailed tenons/mortises simultaneously for accurate jointing.



HDHQ double side surface planer

A heavy duty, high quality and high speed machine with powerful cutting capacity. This planer has reliable stability and shock absorbing capacity that is crucial for high quality work at high speed. The feeding unit is adjustable and has variable feed speed. It has an imported numerical display unit.



PRODUCTS AND PROCESSES

Round-end tenoner

Excellent tenon-work on a high speed, high accuracy twin-table machine is an asset for any handicraft workshop or mass production unit. Round tenons are preferred quality by most modern manufacturers. The user can make various tenon axis angles like horizontal, vertical or 45 degrees to suit the jobs at hand.



Oscillation mortiser

This is a powerful mortiser machine for great quality mortising with flexibility of execution. This Prima machine gives you more features with better engineering design. It has a superior system with pneumatic clamping for perfect gripping.



Wide belt sander

The finest sanding of wood and veneer for those who aspire to achieve fine surfaces of wood jobs. It has a vibration-free structure and is equipped with easy-to-operate high-end electric control system.



Clamp carrier hydraulic

The machine equipped with hydraulically operated clamp tighteners, provides extremely powerful, uniform and fast clamping performance. It has super, heavy-duty clamps with maximum rigidity and durability.

**Color fast,
Long Lasting,
Dries in Seconds.**

OFFICE MATE[®]
Furniture TOUCH-UP
Markers

Hides scratches

Chips and worn edges

These Furniture Touch-Up Markers, comes in 6 Different Colours & is used to restore the colour of the wood

Oak

Maple

Walnut

Designed for light, medium and dark brown finishes

**Furniture, Floors, Wood work,
Cabinets, Doors, Frames and more...**

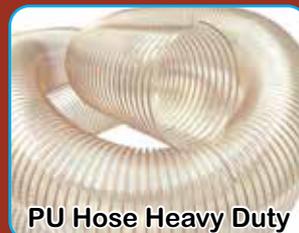
Mfg. by : **SONI POLYMERS PVT. LTD.**
42, Bajaj Nagar, Nagpur - 440 010 (INDIA)
e-mail : domestic@soniofficemate.com
Consumer Care Cell Tel. No. +91-712-222-1746
Website : www.soniofficemate.com

ISO 9001:2008
CERTIFIED
COMPANY

**For use on
Wood &
Wood
Laminates**

German Flexible Dust Collector Hoses & Vacuum Hoses

Since 1990
FLEXAFLEX



Web
www.pipeagencies.in
www.flexaflexhoses.com

South India
FLEXAFLEX HOSES INDUSTRIES
262, Dr. Nanjappa Road, Coimbatore - 641 018
Ph: 0422 - 22 33 452, 23 93 453
Mob: +91-98438 10577, +91-93453 10577

Email:
pipe.agencies@gmail.com,
flexaflexhoses@be@gmail.com

Email:
flexaflexhoses@gmail.com
flexaflex.ahd@gmail.com

North India
FLEXAFLEX HOSES INTERNATIONAL
106 Kailashpati Chamber Reid Road,
O/S. Panchkuva Gate, Ahmedabad- 380002.
Ph: 079 - 22 14 04 61, 22 16 13 60
Mob: +91- 09978442215, +91- 90990 16044,

Indian delegation for Canada

The Quebec Wood Exports Association (QWEB) is organizing its annual Montreal Wood Convention (19-21 March, with the participation of all major wood exporting firms from Canada: Canfor, Tolko, Dunkley, Carrier, West Fraser, Arbec, JD Irving, Conifex, Resolute Forest and Weston Forests.

The High Commission of Canada is organising mill visits in Montreal as part of its Indian lumber delegation, which will include introductions to suppliers and business meetings. It provides Indian customers the opportunity to meet with reputed softwood and hardwood lumber mills.

Besides, there will be an industry seminar on lumber economics and markets, with technical presentations on softwood lumber



and house construction. Alongside will be a trade show

Interested? Indian timber traders/importers and furniture manufacturers may look up www.montrealwoodconvention.com/en and contact Mr Viney Gupta, Trade Commissioner in New Delhi, on viney.gupta@international.gc.ca.

Water scarcity limits forest growth

Lack of water is playing a major role in limiting global forest growth as the climate warms, a recent study has warned. According to the research published in the *Journal of Science Advances*, the effect is most evident in northern climates and at high altitudes, where the primary limitation on tree growth had been cold temperatures.

As part of the study, the researchers compared the annual growth rings of trees during two time periods. The growth rings are wider when conditions are better, narrower when conditions are worse. The ring-width measurements were taken from trees at about 2,700 sites spanning every continent except Antarctica.

The team also mapped average temperature, precipitation and measures of drought stress on plants onto a grid covering the world's temperate and boreal regions. The finding has implications for future forest and tree growth and for forest management.

PEFC completing two decades

The year 2019 marks the 20th year since the inception of the forest certification body, the Programme for the Endorsement of Forest Certification (PEFC). It was in 1999 that European small-forest owners came together in Würzburg, Germany, to create an international forest certification system that covered them also, and on 30 June 1999, PEFC

as a certification system was set up.

Said Mr Ben Gunneberg, the CEO of PEFC International, "Families and communities own 25% of the world's forests. By providing these forest owners with the opportunity to gain certification, PEFC led a great leap forward for sustainable forest management."

Sawn timber import up 44%

Sawn timber imports witnessed a big boost in the year 2018 after having dropped marginally the previous year. The data revealed by the reports from DGCIS indicates that import of sawn timber has increased by Rs. 800 crore (44% growth) to reach Rs. 2,615 crore in 2017-18.

The rising trend in sawn timber import is a continuous phenomenon for India since 2014-15, with data showing growth in the Indian construction and furniture sectors. There has been a 6.6% rise in import of logs too, with Gandhidham (Gujarat) registering 60% of total logs import into India.

Hardwood is imported from Malaysia, Vietnam, Myanmar, America and African countries, whereas softwood sawn is shipped from Canada, Europe and North America.



Dovetail moves into office space

Dovetail Furniture, the Bengaluru-based market leader in retail fixtures and school furniture design and manufacturing, has added office furniture design and manufacturing to its portfolio. It is already meeting office furniture requirements for many well-known brands.

With this, Dovetail is looking to expand its business operations and strengthen its associate network across India. The company has state-of-the-art manufacturing facility spread across 45,000 square feet. For details email sundar@dovetail.in.



Subscribe To
WOODNEWS
Today

WoodNews delivers the most compelling news, views, trend & analysis of the woodworking industry. Each lively issue of WoodNews magazine brings you:

- A quick and complete update on furniture manufacturing technologies, trends and current events from across the globe.
- Answers to business questions you've been longing to know.
- Cover stories, interviews & leader speak covering technology & business from industry captains.

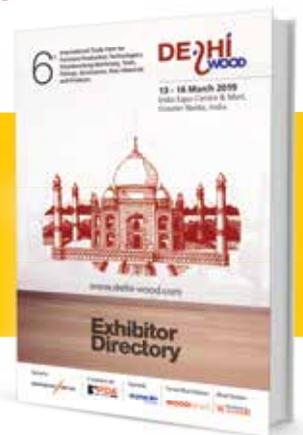
Free delivery to your doorstep!
6 editions of WoodNews @ only
Rs. 600 per Year

ACT NOW!!! Subscribe to
WOODNEWS today

For More Information call: + 99866 00036,
email: subscribe@woodnews.in
or log onto www.woodnews.in

Get Noticed, Get more Business From DelhiWood 2019

Advertise in DELHIWOOD SHOW DIRECTORY & SHOW DAILIES



Hurry! Call Now!!!

Fabian
Mobile: +91 9916092927
E-mail: fabian@pdatrademedia.com

Chandru
Mobile: +91 9986600036
E-mail: chandru@pdatrademedia.com

Plywood floods market in India

The supply and demand for wood-based panels is still out of balance such that supplies are increasing faster than the growth in demand, reports the International Tropical Timber Organization. While there is firm activity in the real estate and construction sectors, panel production has expanded too fast.

Part of the problem is that while the number

of new housing units may be increasing, the floor area of these new homes is getting smaller.

It is not only plywood manufacturers who are under pressure – MDF and particle board makers face the same situation, with new factories coming on stream before there is a market.

Myanmar sets 10-year harvest target



The Myanmar forest department has released details of its 10-year district working plan, which provides the targeted annual allowable cut (AAC) for the period 2016-17 to 2025-26 of 19,210 teak trees and 592,330 other hardwood trees to be harvested across 68 working districts.

Local newspapers, quoting the forest department, recently carried news that plantation log exports may be allowed in the future. The government has also discussed the idea of allowing private investors in plantations to export logs as an incentive. It

reports that the department has submitted its plan to legalise private plantation log exports to the Ministry of Natural Resources and Environmental Conservation.

Demand remains strong in India for Myanmar teak, and producers of teak veneers and decking need high-quality logs and they are the main buyers of the stocks available in India. The continued demand for and restricted supply of Myanmar teak is now leading to Indian manufacturers to seek alternative timbers.

Specialists in the Manufacture of
Double End Tenoners in Taiwan



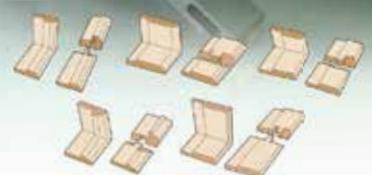
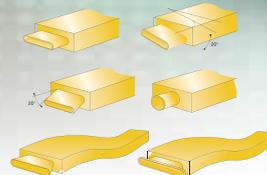
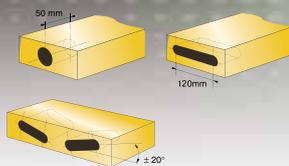
E-CHAIN MACHINERY CO., LTD.

No. 276-2, Kuan Chi Road, Shen Kang District, Taichung 42948, Taiwan
 Tel: +886-4-2562-0988 E-mail: sales@echainmachinery.com
 Fax: +886-4-2561-9826 www.echainmachinery.com



YOW CHERNG MACHINERY CO., LTD.

No. 41, Ln. 168, Fuzhuang St., Shen Kang Dist., Taichung City 429, Taiwan
 Tel: +886-4-2563-3967 / 2563-3863 Fax: +886-4-2563-3770
 E-mail: yowcheng@ms15.hinet.net http://www.yowcheng.com.tw



YC-480 / YC-480A
 Continuous Dovetailer



YOM-120
 Oscillation Mortiser



YRT-115
 Rectangular Tenoner



YC-TF7
 CNC Automatic Milling
 Tenoning Machine

Visit Us at
DEHI
 WOOD
 Booth: H14 E518

Taiwan-made Products !

WOODTECH

WOODTECH CONSULTANTS PVT. LTD.

31/2, Nadakerappa Industrial Estate, Andrahalli Main Road,
 Near Peenya II Stage, Vishwamedam Post, Bangalore, 560 091.
 Tel: +91-80-2836-4584/5 Fax: +91-80-2836-1166
 Email: info@woodtech.in Website: www.woodtech.in



Jai's cold press machine



Adequate maintenance is a crucial factor for a longer life of the machine (**J-50T**) and to obtain optimal working condition of the machine itself. All the maintenance operations must be done with the machine turned off and wearing protective gloves.

The machine and working area must be kept clean from any scrap and anything that could hamper the working cycle or access to the machine itself. Make sure that no unwanted material gathers on the machine preventing safe operations and causing danger to the operator during the normal working cycle.

Regular cleaning of the machine and, in particular, the table and guides is an important safety factor, that can obstacle correct machine movements and damage machine efficiency. Do not use detergents or lubricants. Make sure the machine is lubricated regularly. Check the electric system for the condition of the electric cables. Make sure there are no signs of wear, scrapes, etc.

Do not press work pieces that are too large or too small for the machine to handle. Inspect the clamping of the various mechanical components. Check the oil level in the tank weekly and top up if necessary. ▶

Looking for the better door ?



Sauerland Spanplatte

7 Reasons
to use
Sauerland
Boards

1 Doors with ideal weight



2 Doors resisting daily stress



3 Doors production with high efficiency



4 Doors that close properly



5 Doors with a perfect surface



6 Doors reducing sound transmission



7 Doors protection from fire



Solution for the better door!



WE OFFER :

Support in Door Construction
... following your specific requirement.
Testing in the Sauerland Lab
... regarding all technical demands.

Sauerland Door Concept

Sauerland Service

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.

Door manufacturers interested in new technology Contact :

Sleek Boards Marketing Services LLP

20, "Landmark" 4th Floor, Paud Road,
Kothrud, Pune 411038. INDIA
TEL: 020 - 25463471/25421021
Fax: 020 - 25442559
sleekboardsmarketingservices@gmail.com
www.sauerland-spanplatte.de

Problems	Causes	Remedies
Machine switches off by itself during operation	Power short circuit or tripping operation	Remedy cause of phase failure.
	Too hot to shut down the circuits	Adjust the circuits and put the hot relays reset
Upper table is unbalanced	balance tooth of rack and lifting gear wheel not meshing	Adjust till it meshes.
Oil leak on any joint	The screw of oil pump is loose	Tighten it.
No effect on pressure	Loose	Tighten it using PTFE tape.
	Pressure valve or electromagnetic ball is damaged	Change the fitting value.
Motor switches ON but press is not ON or loud noise from oil pump.	Oil circuit have leakage	Check it.
	Oil pump	Replace with new pump.
Pressure Gauge into pressure too fast	Hydraulic control one -way valve or Electromagnetic ball is damaged	replace it.
Oil raw foam	Inlet link leakage	Tighten or change it.
	Liquid level too low	top up oil to level.
	Oil quality wrong	Change oil.
Platen swinging while lifting	Trolley of the lifting position eccentric shaft bending	Change the eccentric shaft.
Platen not lifting while pressing button	The power has shut down	Switch on.
	Problem in power phase	Check and correct it.
	Breaker not connecting	Connect it.
	Thermal relay or contactor problem	Check and replace it
	Electromagnetic valve is damaged	Check and replace it
	Pressure gauge problem	Check and replace it
	Intermediate relay is damaged	Check and replace it

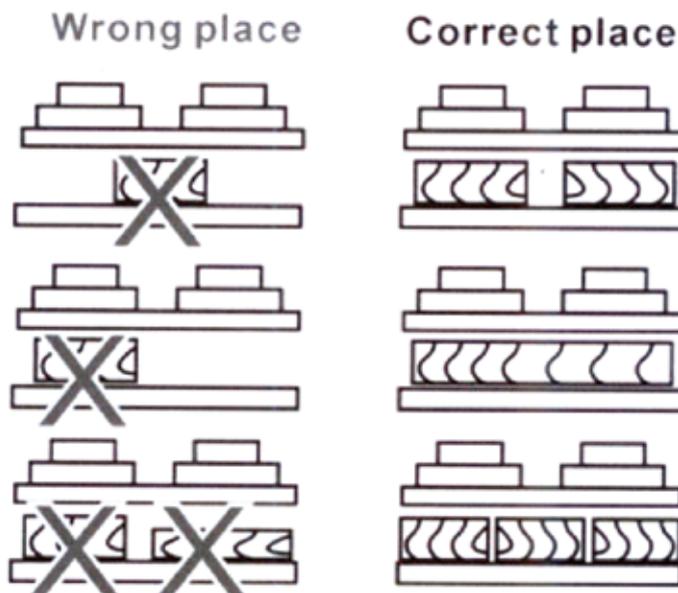


Diagram for placing Workpiece

Workpiece should be evenly placed in the middle of two cylinders with the same thickness as shown in Figure. Placing or pressing workpieces with uneven thickness is strictly prohibited, to avoid serious damage to the machine.



smart kitchen & wardrobe components

A Tiara initiative signature kitchen and wardrobe component collection of Stanch challenge the perceptions of space and celebrate the reinvention of precise quality & comfort. Each individual piece draws upon decades of design inspiration and the quest for perfection. Our components are sculptural in design and unrestricted quality.

stanch

PRODUCTS BY TIARA

Dealers enquiry solicited



+91 99798 80946



info@tiarafurniture.co.in

Value for Money



For now. Forever.



Modula Various Presses

Press-work is integral part of quality panel-processing

Jai has all the best solutions

■ Hot Press

J-120T1 • Single Layer

Laminating on fibre boards, decorative papers, plywood etc.

■ Cold Press

J-50T • 2 Cylinders

Also :
J-120T3
Three Layers
model



Also : J-100T 4 cylinders model
^
Cold pressing lamination on composite wood, cork board, fibre board, honeycomb board etc.



■ Roller Press J-1200.in Auto

It is used to press laminates / papers / acrylics / veneers / PVC foil on the materials such as MDF, particle board / plywood

■ Vacuum Membrane Press

J-1250.in Vacuum Lamination with high quality high production

Uniform lamination of PVC, decorative papers & veneer till 0.4 mm on top surface and borders of flat and designed work piece.

Also : J-1252.in
(Double Trolley)



Jai Industries

Corpo. Office : Nr. Ajit Mill Cross Rd., B/s Rakhial - Odhav Flyover, Rakhial - Odhav Main Rd, Rakhial, Ahmedabad-380 023. Gujarat, India. • +91 79 2291 1400 \ 1900
• modula@JAIndustries.com • www.JAIndustries.com

■ CNC Routers

• J-1325 • J-1325 VT • J-1325 VT(L-ATC)

High precision Taiwan linear rail, Heavy ball screw & Digital Signal Processing for control system



EBCO NEWS



SPECIAL NEWSLETTER FOR DELHIWOOD 2019 | MEET US IN **HALL 9 - B202**

INSIDE ▶

- Messages from our Directors
- Office Furniture Fittings
- Kitchen Systems & Accessories
- Bed & Wardrobe Fittings & Accessories
- General Hardware
- Furniture Locks
- Window, Door & Glass Hardware
- Aluminium Profiles & Handles
- Furniture Lights - LED



From the MD's Desk

India is a huge, innovation-hungry market

Today, without an element of doubt, we live in a country that offers more opportunities than most others in the world. We have a democracy that is stable, we have peace and stability without the threat of war and conflict. We have a large young population where more than half of our people are below the age of 30. We also have an aspiring and growing middle class, with millions of Indians who are the first in their families to be educated; to hold jobs that are not on farms; to buy cars, computers and phones; to buy homes that need to be furnished. States are economies and markets by themselves and now, with recent tax reforms that encourage free flow of goods and services between states, the possibilities are endless.

This is the beauty of India – our demographic makeup has ensured that we always have a bright future to look forward to!

Unique market

Customers in India – and this is true for many industries in our country – primarily want quality, but at competitive prices. Offices not only want furniture and fittings that are cost-effective for large volumes, but also durable and can withstand daily use by a large number of people. Homeowners want to buy furniture that will last upwards of 10 years without having to repair or replace. They want space-saving innovations and utility, quality and international designs. Customers will grow more demanding as India grows, educates itself and commands better purchasing power. All of this is very positive for all of us!

Geoffrey Nagpal



Consistent innovation

Keeping in mind the broad spectrum of segments within the furniture industry, the intelligent customers that we cater to, and the scale of what is possible, we need to constantly innovate and find better products, improve current offerings, learn ways to provide better features, and generally help customers get the most out of their spaces.

Ebcotech has been at the forefront of innovation for the 30 years that it has been in the furniture fittings industry. We have a large and robust research and development infrastructure with a full-fledged design department, tool room, press shop and heat treatment. We have experienced growth over the past years. Our team at the top – Ashley Nagpal, Technical Director, Rajesh Nair, Sales & Marketing Director and Nishant Nagpal, Director have been working hard to push us into the future. What has worked well for us is our ability to listen to what customers want and develop products that do more with limited spaces.

With a clear picture of the landscape, we now need to take full advantage of it by developing the markets, investing our time and energy into making our businesses more professional, hiring good people and, most importantly, catering to the needs of our customers.

Laptop Drawer



Anti-Skid Mat



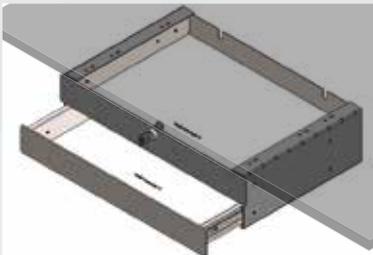
Safety Lock



Safety Bracket

- Ready to use ceiling mount Laptop Drawer made of steel
- Available with option of antiskid mat
- Equally suitable to use with regular as well as height adjustable desks (SmartLifts)
- This complete set of drawer with slides, mounting bracket and lock can be retrofitted on your existing table
- Safety mounting brackets ensures that the drawer cannot be removed as long as it is in locked position
- Maximum laptop size 390 x 270 x 40mm
- Full extension of drawer 300mm
- Minimum width clearance required is 530 mm
- Weight Capacity : 12 Kg
- Finish : AT, WM

Laptop Drawer (Double)



- Ergonomic design with dual drawer flexibility for storing laptops, office documents & stationery and more
- Suitable to use with regular as well as height adjustable desks (Smartlifts)
- Full extension of drawer 300mm
- System 32 compatible

CMA – Laptop Plate



- Unique design with laptop plate setup for integrating your laptop as a secondary display
- This combine setup is ideal for mobile workers, business travellers, users etc who are constantly on the go
- Designed to use with 'ebco' Computer Monitor Arms
- Max. Load : 8 kgs per arm

Vertebrae Rectangular



- Ideal for concealing electrical & data cables separately at a work station in an organised way
- Heavy base allow flexible positioning without drilling on the floor
- Flexible and unique design with two point joint system
- Available in White, Grey and Black



Laptop Stand

- Ergonomic design laptop stand that can be used at home, offices or while travelling
- Lightweight and easy to carry around as per your convenience
- Anti-skid surface underside keeps the laptop support firmly in place while working
- Minimizes the risk of modern health hazards such as Carpel Tunnel Syndrome (CTS), Repetitive Stress Injury (RSI)

Message from the Desk of Technical Director

Ashley Nagpal



This year besides developing a whole range of new products we have once again concentrated on improving our in-house development and manufacturing facilities. The addition of a 3rd CNC Vertical Milling machine has greatly increased our development capability. Additions like state of the art Digital Panel Saw machines have brought improvement in the quality and productivity of manufacturing Aluminum products.

New products include Laptop Drawer and a Double Drawer, a completely new Electric Bed Lift working on a new principle, an Under Mount Slide system for Kitchen Baskets, a Concealed Cabinet Hanger and a Recessed Table Bracket are only a few of the products developed and to come.

We are also expanding our infrastructure and facilities at Vasai to be able to increase and streamline assembly of our product lines and automation.

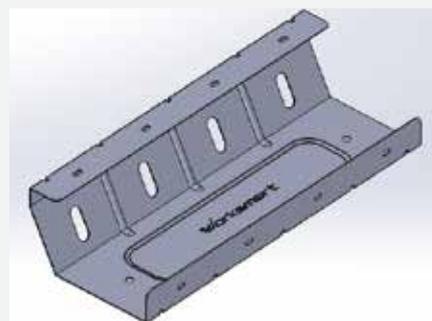
Our 1st ISO Annual Surveillance Audit by TUV Nord was successfully carried out in three standards, thereby maintaining our firm commitment to improving quality, while protecting the environment and maintaining the highest standards of organizational health and safety.

Valuable feedback and support from our distributors and customers have helped us grow and our ability to continually change has helped us to where we are today with lots to look forward to.



CPU Station - Basic

- Ideal for storage of CPU under the table by adding additional work space
- Provides quick & convenient access to port and cables without bending your body posture
- As per desired sitting area, CPU can be easily pulled out and swivelled
- Safe Load: 20 kg
- Finish: BL, AT, WT



Cable Tray Fixed

- Ideal for cables management
- Protects the cables and users
- Can be fitted easily below the table
- Rib structure provided for additional strength

Smart Lift Table Leg – Gas Lift (with & w/o Table Top)

- Sit or stand and work comfortably with these height adjustable desks
- Using gas lift technology these are easy to use with a press of a hand lever to adjust the height as in chairs
- Ideal for Offices, Institutional and home applications
- Choose from with or without table top
- Height: 700 – 1080mm
- Stroke: 380mm
- Speed: 200mm/s
- Capacity: Dynamic – 15kg, Static – 100kg



Smart Lift Single Leg – Gas Lift (Centre Pole)

- Sit or stand mobile work desk with height adjustment feature
- Single pole structure with built-in castors enables easy movement of workstation
- Raise or lower the desk at any desired height with in-built hand lever
- Ideal for Offices, Institutional and home applications
- Optional plinth levellers available instead of Castors (On request)
- Available with table top
- Height: 750 – 1150mm
- Stroke: 390mm
- Speed: 200mm/s
- Capacity: Dynamic – 8kg, Static – 50kg



Smart Lift Single Leg – Gas Lift (Side Pole)

- Compact single pole height adjustable desk for multiple application at Home, Hospitals, Meeting Rooms etc.
- Raise or lower the desk at any desired height with in-built hand lever
- Available with table top
- Ideal for Offices, Institutional and home applications
- Optional castors available instead of plinth levellers (On request)
- Height: 680 – 1070 mm
- Stroke: 390mm
- Speed: 200mm/s
- Capacity: Dynamic – 8kg, Static – 50kg



Work Comfortably Sitting Down... Work Healthy Standing Up!

Rajesh Nair



Message from the desk of Sales & Marketing Director

During the last few months, we have seen the results of many initiatives we have taken during the last two to three years. It is encouraging to see that all verticals are growing simultaneously.

It is also satisfying to hear from our customers and associates that Ebco, with its three broad verticals (Ebco - General Hardware, Worksmart - Office and Livsmart - Home), offers a complete range of 'solutions' at fair prices without compromising on quality standards. Fact: We have introduced **286** new products / variants from April to December 2018, more than one a day!

We have taken several initiatives on the marketing front. A new creative agency and a new digital marketing agency are now on board. New marketing campaigns - **Worksmart** with ergonomic solutions for offices, **#Happy Kitchens** with Livsmart fittings are underway. We have increased our digital marketing presence from July onwards.

Ebco National Display Centers (NDCs) are now open in **Kolkata** and **Jaipur**. Upcoming displays this year are **Bhopal** (City Display Center - CDCs), **Sahibabad**, Noida (CDC), **Okhla**, Delhi (NDC) and **Trichy** (CDC). With these, we will have a strong presence in all major cities with 18 NDCs and 5 CDCs by March 2019. There are many dealer display galleries coming up as well.

We will be showcasing all our new launches at Delhiwood at the **India Expo Centre & Mart, Greater Noida, March 13-16, 2019**.

Now IMOS iFurn users in India have the freedom of choice! Ebco Catalogue version 1.1 is now online on iFurn. Ebco is the first Indian company to mark its presence in the iFurn Design Catalogue platform.

We began an initiative to develop fitter skills two years ago. This is a seven day training programme conducted by trainers and skilled fitters at our in-house training centre, Vasai. After the completion of this training, they are able to install advanced hardware solutions (like corner solutions, sliding systems etc.) for kitchens and wardrobes.

We look forward to hear from you as usual and wish you a very happy and prosperous new year 2019.

New National Display Centres (NDC)



Jaipur



Guwahati



Kolkata



Ernakulam

Livsmart Stores

Upcoming Display Centres

National Display Centre (NDC):

- Okhla, Delhi
- Nashik

City Display Centre (CDC):

- Bhopal
- Sahibabad, Uttar Pradesh
- Trichy
- Mysore



Nishant Nagpal

Message from the desk of Procurement Director

Over the 6 years I have been at Ebco, I have seen much change for the better. We have tripled sales, added innovative new products, cannibalized older ones, succeeded in establishing ourselves in territories we once did not have a presence in, added many assets to our network of distributors as well as our internal teams, added display centers around the country, bolstered our manufacturing and development capacities, associated with world class specialists around the world for sourced products, and much more. We firmly believe that nothing is constant except change and we wholeheartedly embrace it.

While our 3 manufacturing plants represent our core strength, our component supplies from 9 countries are an additional strength. As with our distributors, our relationships with suppliers extend to an average of fifteen to twenty years and we take pride in being able to carry our suppliers along with us on our journey of growth. This year has seen immense turbulence in raw material prices, we have kept supplies steady and have experienced good growth in both manufacturing and sourced products. We are currently in the process of expanding our warehousing infrastructure.

We believe that the future is digital and the power of the internet in the hands of millions will change how companies connect with their customers. The majority of page views on our website come through mobile phones, not desktops. There is a young tech savvy segment of the market including first time homeowners and even architects and interior designers, who want innovative fittings and accessories, at reasonable costs, to improve their own work and living spaces, or those of their clients. Based on these insights, we have driven a sharp focus on the digital space for the first time. This includes a new digital marketing agency with great experience, bursts of exposure on social media such as Facebook, Instagram and LinkedIn, and facilitating conversations about how WorkSmart and LivSmart products bring about significant improvements in the quality of one's time spent at the office and at home.

Besides our intense focus on our industry, we also give back to the community and country that made us who we are. We associated ourselves with the Sobo House of Music's Notes to Remember show in October 2018 – an event that provides a platform to Bombay's most vocally talented children. This is our third year working with Just for Kicks, an innovative organization that improves education in low-income schools by bringing sport into the lives of children from modest backgrounds.

The future looks immensely bright as we witness and be part of the development of a country that has its best days ahead of it.

Visit us at :
DE·HI
WOOD
13th to 16th March, 2019
HALL H09, B202
India Expo Centre and Mart, Greater Noida



CONVENIENCE AT YOUR FINGERTIPS



Electric Box – Slide Out

- Compact and slim design electric box with sliding lid that hides sockets when not in use
- The unit includes Wireless Charger, 2 Universal Power Sockets, 2 USB Charger Sockets, 1 Telephone and 1 Network Socket
- In-built wireless charger for high end smart phones
- This concealed electric box is ideal for any conference table, work desk or counter tops
- Dimension : 350x100x59.3mm
- Desktop Cut-out Size : 340x71mm
- Finish - SL

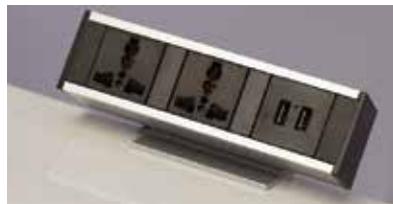


Electric Box – Ceiling Mount



- Ceiling Mount electric box can be mounted anywhere below the work desks as per your convenience
- Clutter free desk as it is mounted below the table
- The unit includes 2 Universal Power Sockets and 2 USB Charger Sockets
- Ideal for any work desks, conference rooms etc
- Dimension : 163x43.5x46mm
- Finish - BL

Electric Box – Edge Mount



- Easy edge mounting electric box is ideal for any work desk and portable
- Easy clamp on mounting makes it flexible to use on any table and mount anywhere you wish
- The unit includes 2 Universal Power Sockets and 2 USB Charger Sockets
- Dimension : 163x43x46mm
- Finish - BL

Electric Box - Flip Up



- Unique design with flip up lid that hides sockets when not in use
- Clutter free desk with no additional wires or cords attached
- The unit includes 3 Universal Power Sockets and 2 USB Charger Sockets
- Ideal for furniture in Offices, Meeting Rooms, Institutions etc.
- Dimension : 228x158x50.5mm
- Desktop Cut-out Size: 213x148mm
- Finish - SL

Wireless Charger



- Elegant wireless charger for high end smart phones
- Can be used with any Micro USB mobile charger
- Easy to mount in a 60mm dia hole
- Ideal for furniture in Offices, Meeting Rooms, Intuitional & Home Application
- Dimension : 80 x 12mm
- Desktop Cut-out Size: 60mm Institutions etc.
- Dimension : 80x12.3mm
- Desktop Cut-out Size: Ø60.5mm
- Finish - WH

USB Charger - Furniture Mount (Circular)



- Dual USB port charger that converts any furniture to smart charging unit
- Ideal for home and Office furniture
- Size: Ø35x35
- Hole Dia:32mm (Through Hole)
- USB Output: 5V/2.1A
- AC Adapter: INPUT: AC 100-240v50/60Hz 0.35 MAXOUTPUT: 5.0 V-2.0A
- Finish - WH/BL

USB Charger – Furniture Mount (Linear)



- Dual USB port charger that converts any furniture to smart charging unit
- Ideal for 18mm & 25mm table tops where it can be recessed on edge/top or mounted beneath the table
- Physical Dimension Size: 80x12x17mm
- Cut-out size:81x13mm (Through Hole)
- USB Output: 5V/2.1A
- AC Adapter: INPUT: AC 100-240v50/60Hz 0.35 MAX OUTPUT: 5.0 V- 2.0A
- Finish - WH/BL



Table Mat

- Textured black finish with smooth and comfortable resting surface for your work desk
- Protects your desk from scratches, scuffs or spills of any kind
- Right angle edge and anti-skid property retains it in position



Cable Duct – Base & Cover Profile

- This versatile profile is ideal to conceal electrical data cables at any workstation in organised way
- It can be easily set in to the carpet or fitted on top of the floor covering thereby reducing the risk of accidents for pedestrians
- Available in Black & Silver finish



USB Charger with Cable Organiser (Ø60)

- Dual USB port charger that converts any work desk to a smart charging unit
- Ideal for any work desk which also functions as cable organiser
- Physical Dimension: 66x20mm
- Cut-out Size: Ø60mm
- Finish - WH/BL



Now **IMOS iFurn** users in India have the freedom of choice! Ebco Catalogue version 1.1 is now online on iFurn. Ebco is the first Indian company to mark its presence in the iFurn Design Catalogue platform.

IMOS AG is a leading software producer for furniture and interior design. The software combines machine, materials and fittings to a continuous flow of data from the internet-based room planning, order entry over construction and calculation up to the controlling of the CNC machines.

The software is available Globally and in use at more than 4,000 companies including leading international kitchen and furniture manufacturers and design-oriented interior specialists. Directly after the design, at the touch of a button, production lists are immediately available. Design data is automatically sent to the CNC machining centers, dividing saws or automatic assembly machines.

With this association, Ebco has widened its customer base further in the home furniture segment.

Exhibitions & Events



Indiawood 2018



Distributor Meet



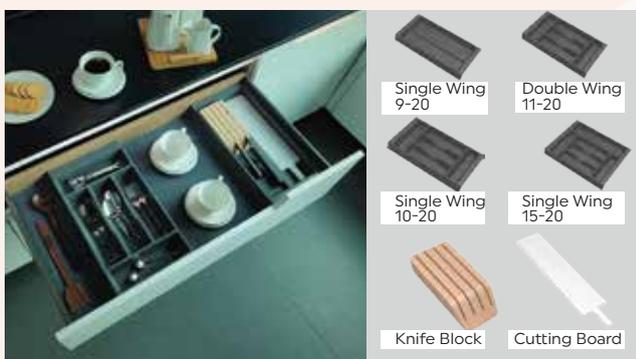
Annual Thanksgiving Day

Pro Motion Drawer System – S2 Series



- Unique and unparalleled drawer with 2 sided metal
- Internal drawer organiser allows to utilize the drawer as per your convenience
- Available in different heights and finish
- Option of Glass/ Aluminium Panel/ Rail for fascia
- Suitable for all type of application including kitchens, living rooms, bathrooms and office furniture

Modular Cutlery Tray



- Organize drawers as desired with flexible single/ double wing trays. Recommended to use with Drawer Mats by Livsmart
- These flexible trays can be easily positioned on the side or in the middle of drawer in any combination of your choice. Suitable for any drawer widths
- Optional knife block & cutting board

Shelf Tray



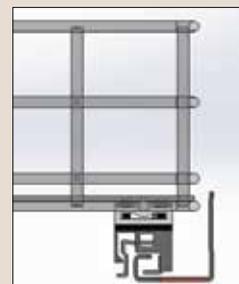
- This tray can be fitted on to the inner face of any shutter
- This product has multiple applications-in kitchens (waste bin shutters, pantry unit shutters, overhead shutters, on the mid-way wall etc), Wardrobes (for cosmetics, perfumes etc) in bathroom cabinets & more
- Designed for easy accessibility, clip-on mounting
- Manufactured of durable plastic and long life
- System 32 compatible



Swing Out Waste Bin Rectangular (Single/Double)

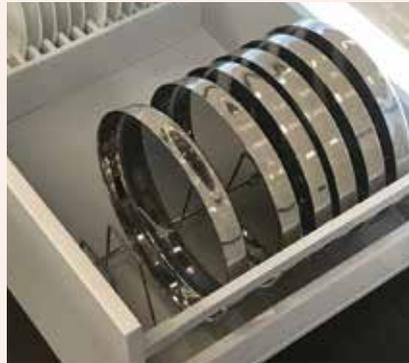
- Aesthetically designed for ultra-modern kitchens
- Compact & Flexible as the container can be attached on any shutter or cabinets drawers
- Hassle free & easy removal of containers as per convenience
- Separate compartments for both wet and dry waste management
- Capacity – 1 x 15 Litre (Single) / 2 x 7.5 Litre (Double)

Undermount Basket Clip



- Maximize width of drawer
- Easy to fit
- Size : 30 x 12 mm

Kitchen Drawer Rack –Plate & Thali

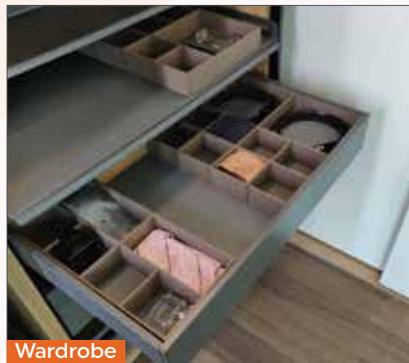


- This new kitchen drawer rack for plate and thali offers firm grip to hold the rack easily & comfortably
- PVC coating to protect the plates from scratches
- SS 304 Grade National Electric polished finish (No Chrome Plated)
- Rubber bush prevents rack from moving, slipping or scratching the surface

Drawer Partition Kitchen / Wardrobe



Kitchen



Wardrobe

- Organize drawers as desired with flexible drawer partitions
- Available in do it yourself (DIY) kit
- It can be easily positioned on the side or in the middle of drawer with any combination of your choice
- Ideal for storing multiple items such as spoons, knives etc (For Kitchen) and jewellery, watches, other accessories etc (For Wardrobe)
- Two finishes - Anthracite & Mocha

Bed & Wardrobe Fittings & Accessories

Wardrobe Rail Fitting – Rectangular



- Rectangular wardrobe rail supports are die cast for strength and long life
- Easy to fit and compatible with a special 'Ebco Aluminium Rectangular Bracket'
- Available in aluminium anodized

Wardrobe Pullout Hanger- Single / Double



Single



Double

- This new trouser rack organises your trousers/ sarees for convenient access and easy pullout
- It is removable and can be easily mounted under the shelves
- Round ring provided for hanging small accessories (belts, ties, scarves)
- Available in Single & Double models
- Single rack is available with 10 hangers while double rack is available with 20 hangers

Smart Key Box



- Keyless operation
- Up to 10,000 combinations
- Code setting without tools
- Code finding from the front by recovery key
- Anti-Bacterial Plastic Key cap with Microban Technology inhibits bacterial growth by 99%
- Can Hold 20 Keys
- Ideal Application in Office, Residence, Clubs, Gyms, Wallet Parking etc

Hinge Slow Motion-3D

- Three way adjustment hinge with built in damping system that closes shutters without banging
- Available in Full Overlay, Half Overlay & Inset
- Max. Opening - 105° & Max. Shutter Thickness - 16 mm to 19 mm
- Finish - Nickel Plated



Hinge slow motion SS304

- Made our of Stainless Steel 304 grade
- Unique built in damping system allows the shutter to close in slow motion without banging
- Available in Full Overlay, Half Overlay & Inset
- Max. opening: 105°
- Max. shutter size: 34" x 22" (850 mm x 550 mm) for 2 hinges
- Shutter thickness: 16mm to 19mm
- Shutter cavity: Ø35mm, 12mm deep, cavity 4mm from edge



Hinge Push Open with magnetic push open fitting

- This new hinge with special reverse spring enables automatic opening of door by exerting small amount of pressure to the door
- Available in Full Overlay, Half Overlay and Inset. For Shutter Thickness of 16mm to 19 mm



Short Arm Hinge with 4 Hole Mounting Plate SS304

- Ideal for Aluminium framed cabinets
- Available in Full Overlay
- Max. Opening - 100°
- Shutter Thickness - 16mm - 19mm
- Finish - SS 304

Push Open Fitting Magnetic



- To be used for drawers & door without handles
- Drawer / door remains closed with magnetic pressure
- Screw on adaptor plate
- Adjustable distance 4mm

Table Bracket Recessed 300/400/500



- This is the new variation with which the space between wall and the board (table top / shelf) is eliminated. The bracket is mounted on the board to be recessed inside.

Wall Shelf Rod – HD



- These are heavy duty, plastic cover moulded, built in with plug and with better grip
- Sizes available - Ø10 x 100, Ø10 x 145, Ø 14 x 140
- Finish - Brown

Pozi Screw driver Bit (Two way magnetic)



- Magnetic screw driver bits for hand screw drivers, electric screw drivers, electric drills, air drills and so forth
- Precision machined tips with superior fitment for full contact fit and longer life

Door Wedge



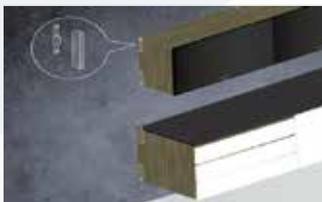
- Made of special grade impurity - free natural rubber
- Design to function on all types of floors, used in front & back position to stop doors wherever desired

Sofa Base 332 & 282



- Easy to mount foot base for sofas and cabinets
- Available in two design - Square & Rectangular
- Finish - Brown & Chrome Plated

Cabinet Hanger Concealed



- Heavy duty cabinet hanger, ideal for kitchen cabinets (base unit and wall units) bathroom vanity units and similar applications
- Modern kitchens are elevated from the floor by mounting on the wall which requires a very heavy cabinet hanger like this

Bag Hook



- Ideal for hanging bags, helmets etc. beneath the table
- Easy to mount under or on the side wall of desk

Base Plinth 14mm



- Specially designed for 18mm board
- Easy to fit
- Load capacity 1200 kg/piece

Magnetic Catch - Dot



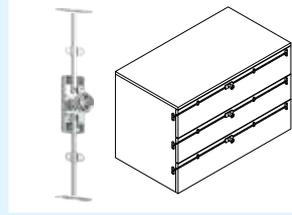
- Easy to fit
- To be recessed fitted in a Ø8.00 mm hole to a depth of 10 mm
- Catch plate provided

Sliding Door Lock for Steel Cabinet (with handle set)



- Sliding door cabinet lock with hook (upward version)
- Push in fixing for easy installation
- 180° rotary movement
- Key removable in locked & unlocked positions
- Choose from master key & non-master key systems
- Plastic housing

Storage Lock – 2 Point (Inset)



- Applicable for vertical openable inset doors as well as horizontal wide drawers (up to 1200mm)
- Click action mechanism
- Key removable in locked & unlocked position
- Zinc alloy die cast housing

Sliding Wardrobe Lock (Side Mount) L/R



- Ideal for Sliding Wardrobe locking
- Click action mechanism
- Key removable in locked and unlocked positions
- Zinc alloy die cast housing

4 Digit Combination Lock-2 Point - Swing (With 2.5m Rod)



- Four Digit combination lock for keyless operation with built in handle
- Ideal to use for Corporate Offices, Home, Retail Show rooms, Lockers, Display units etc.
- Get instant keyless access by replacing any standard furniture lock
- The Combination can be reset to any four digit number, providing up to 10000 possible combinations
- Resolve forgotten secret code easily and rapidly with the secret code retriever key
- Two levels of code settings: Combi-public and Combi-personal



Mortise Door Lock Set – Eco

- Keyless for (Bathroom) and One Side Key for (Bedroom) version
- Easy reversible latch. Key can be removed easily in locked and unlocked position
- Suitable for swing door, wood and metal doors
- Steel Handle Case

Cam Latch Wood 18-20



- Cam latch for pad locking is ideal for 18-20mm door shutters
- 90° rotary cam movement
- Pad lock shackle diameter: Min. 4mm – Max. 6mm
- Made of Zinc Alloy Die Cast
- Ideal for any type of cabinet drawers

Concealed Hinge 3D & 2D



- For flush wooden door applications
- 3-dimensional adjustment function allow vertical, horizontal and depth adjustment after hinge installed
- 300,000 cycles tested
- Cover hides all the screw for aesthetic looks

Door Hinges – SS304



- Made out of SS304 these hinges are designed with precision ball bearings
- Built for long life and smooth working
- Suitable for doors of different sizes and weight

Sliding Door Fitting 100 Soft Close



- Single slide with bi-directional soft closing
- Adjustable soft-closing speed and travel according to the doorweight
- Maximum soft closing travel: 115mm
- Weight Capacity: 100kg
- Door Thickness: Min. 30mm
- Door Height Adjustment: + 3mm with Quick Release Base

Sliding Door Fitting 60 Soft Close & Auto Return (With Quick fit)



- Single slide with bi-directional soft closing and automatic door closing function
- Quick fit door installation and release
- Maximum soft closing travel: 115mm
- Weight Capacity: 30-60 kg
- Door Thickness: Min. 30mm
- Door Height Adjustment: + 3mm with Quick Release Base

Glass Sliding Folding Fittings



- Ideal for glass sliding folding doors
- Suitable for glass doors from 10-12mm thickness
- Max. Door Width – 800mm
- Max. Door Height – 2300mm
- Max. Door Weight – 54kgs. each

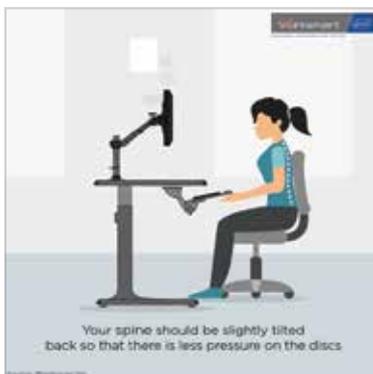
Social Media



Ebco Solutions have already touched millions of lives with their innovative hardware solutions. We have already revolutionized the industry landscape in furniture fittings and we look forward to bring changes in the lifestyle of the people through unconventional hardware solutions.

This year, as part of our marketing communications strategy, and in addition to traditional media, we decided to include a more aggressive approach to social media marketing for our brands, to be visible where our customers and prospects, especially the younger and more aware target segment would be.

To stay relevant and connected, we now use platforms such as Facebook, YouTube and LinkedIn, which reach out to millions of people on a daily basis, and through which we can share not just our products but also stories about how our brands, Ebco, Livsmart and Worksmart, can change the lives of these people at home, at office, at retail, in fact everywhere! We have seen very good response from this initiative and our brands today are more salient and have strong and positive perceptions among the target audience.





Presto Door Knob Lock (Keyless, One Side Key)

- Door knob with push button locking
- Press button to latch from inside until unlocked by key or by inside knob
- Separate opening tool available for unlocking
- Dimpled keys
- For 30-45mm door thickness
- 1,00,000 cycles tested
- Available in Anthracite, Chrome Plated, Nickel Plated Satin, Antique Brass & Brushed Steel

Floor Spring 84-130



- 10,00,000 cycle tested
- Universal Application – Load Adjustment from 100 to 130 kgs
- Max. Door Width – 1100mm
- Max. Opening Angle – 130°
- 90° Hold Open Angle
- Code: DFS 84-130

Door Closer Pelmet Arm



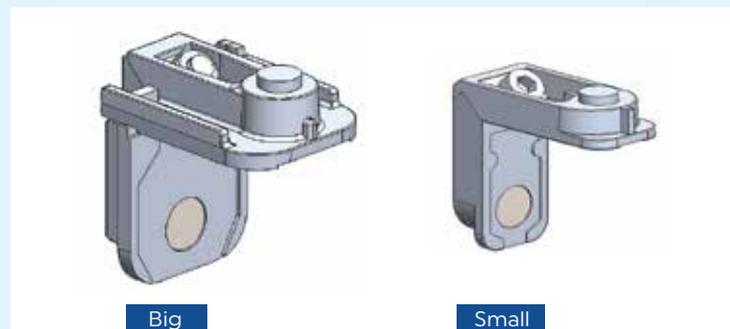
- 3,00,000 cycle tested
- Load adjustment from 30 kg to 80 kgs
- Door width from 500mm – 1000 mm
- Max. opening Angle - 130°
- Hold open facility
- Code: DCP - 80

Auto Closing Patch -100 (with Top Patch + Top Pivot + Mounting Kit)



- Available in a set with top patch & top pivot
- Hold open angle 90° connector
- Suitable for 8 to 13mm glass
- Max door weight - 100 kilograms
- Max door width - 1100mm

UPVC Cleat (Big/Small)



- Used as connector for UPVC window profiles
- Size : 36 mm x 13.5 mm THK
- Size : 22 mm x 10.4 mm THK

Al. Profile Decorative 'L'

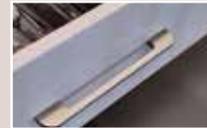


- Used for decorative purposes as lining to add design value to the furniture and to protect edges
- Available in 10mm & 15mm in Anodised Silver & Chrome Plated finishes
- These profiles have multiple applications and it can be simply pasted with adhesive or adhesive tapes

Al. Profile Handle for Wardrobe Sliding 2



- Ergonomically designed to protect the edges of the shutter & for good grip
- Ultra-modern looks and finish that add value to the furniture
- Available for 19mm & 25mm shutters



Al. Handle C4

- Size - 96,160,192,320mm
- Finish - SF & CP



Al. Handle C5

- Size - 160,224,352,160,224,352mm
- Finish - AC, AB, CP



Al. Handle D1

- Size - 96,128,160,224,288mm
- Finish - NB, AB



Al. Handle D2

- Size - 160,224,320mm
- Finish - AB



Al. Handle D3

- Size - 160, 224, 320 mm
- Finish - AB



Recessed Handle Square

- Size - 32 & 64mm
- Finish - CP, BA



Zinc Handle K

- Size - 160-224mm
- Finish - BS



Zinc Handle L

- Size - 128-160,190-224,256-288,192-224,256-288mm
- Finish - BS & AB

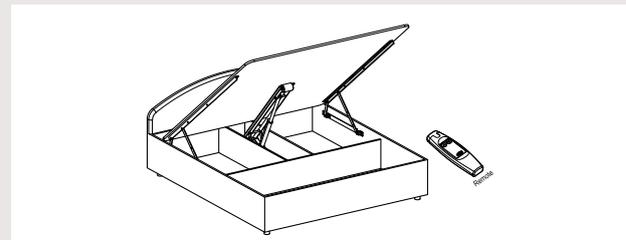
Bed & Wardrobe Fittings & Accessories

Pro Lift Bed Fitting Mini



- Ideal for partial storage under beds
- Special gas pumps included
- 27° opening angle allows easy access
- Easy to lift (with weight on top board) with minimum force
- Recommended Bed Size - (W) 2.5 to 3 feet X (L) 2.5 to 3 feet

Pro Lift Electric Bed Heavy



- Ideal for storage under bed
- Opening angle in excess of 40° allows easy access
- Long brackets provided for better support to the bed platform
- Available in two options:
 1. with Remote Control
 2. with Switch Control
- Finish: Anthracite



Recessed

Mount

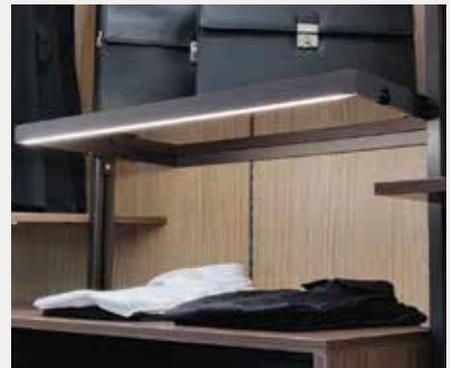
Hanger Peg Recessed/Mount

- Space saving utility product that can be easily fitted in Wardrobes
- Ideal solution for hanging coats, scarfs, handbags, hats, tie etc.
- Unique recessed design enables it to hide easily when not in use



Linear Spread (Recess Mount)

- Angular aluminium profile with frosted diffuser for a soft light effect
- Recessed mounted profile with linear units LEDs
- Plug and play system
- Suitable for shelves, cabinets and display
- Available in length of 412, 462, 562 & 862 mm

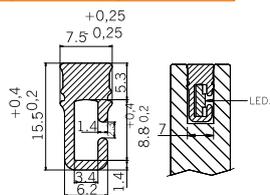


Shelf Light

- This new designer glass shelf with light can be easily adapted to display unit (ebco pole display system) giving indirect light covering the entire cabinet
- Made of extruded aluminium and tempering glass
- Available for 600, 800 and 900 mm widths space
- Easy to install

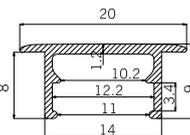
Luminor 7

Items	Code No	Size mm	Finish
Luminor 7	LUM 7	7.5 x 6	Opaline

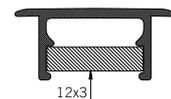


LUM 7

Luminor 8



LUM 8

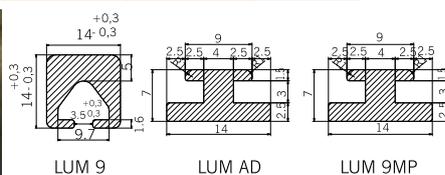


Aluminium Dissipator

Items	Code No	Size mm	Finish
Luminor 8	LUM 8	19.5 x 8.5 x 22	Opaline
Al. Dissipator for LUM 8	LUM 8 AD	12 x 3	Anodised Silver

Luminor 9

Items	Code No	Size mm	Finish
Luminor 9	LUM 9	14 x 14	Opaline
Al. Dissipator for LUM 9	LUM 9 AD	14 x 7	Anodised Silver
Magnetic Profile for LUM 9	LUM 9 MP	14 x 7	Brown



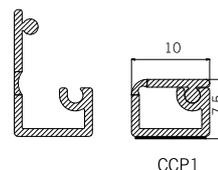
LUM 9

LUM AD

LUM 9MP

Cable Cover Profile

Items	Code No	Size mm	Finish
Cable Cover Profile (with adhesive)	CCP 1	10 x 7.5	Grey/White



CCP1

Visit us at:
DEHI
WOOD
13th to 16th March, 2019
HALL H09, B202.
India Expo Center and Mart,
Greater Noida

WE ARE IN THE BUSINESS OF *Simplifying lives.*

THE WORLD OF INTELLIGENT FURNITURE HARDWARE AND ACCESSORIES

THE WORLD OF INTELLIGENT FURNITURE HARDWARE AND ACCESSORIES



Hardware Solutions



Ergonomic Hardware for Offices



Kitchen Systems & Accessories



Bed & Wardrobe
Fittings & Accessories





PCG GROUP

COMPETENCE IN LACQUER

Our natural and eco-friendly coating for furniture and wood based product

- PLAQUADUR : Water-based systems
- PLANATUR : Waxes and Oils
- PLANTALUX : UV curing systems

Our color and clear coatings for the furniture market:

- PLACRYLAT : Acrylic coating systems
- PLADUR : 2:1 PUR coating systems
- PLATHAN : Cost effective
- PLACOLOR : Stain systems
- PLANTACELL : NC coating systems

"PLANTAG® presents the proven solvent-based as well as modern coating systems with water and UV coatings, innovative ideas for attractive coatings with natural effects, as well as printing and special rolled surfaces.



PLANTAG INDIA

WIDE RANGE OF SERVICES WITH CUSTOMIZED SOLUTIONS

Visit us at Delhiwood
Booth No. H11 905A.

Contact:

Mr. Kartik Mishra, Director, km@plantag.de
G 311, Boranada Industrial Area, Phase III, Jodhpur 342012, Rajasthan, INDIA
Office: +91 293 128 1372 Mob.: +91 982 997 6717 www.plantag.de



<https://www.facebook.com/plantagcoatingsindia/>



https://www.instagram.com/plantag_coatings_india/

A Complete Solution for Woodbase Industry



Spindle Moulder

Sliding Table Panel Saw

SANDING MAX

Wide Belt Sander



Alfa NC Milling

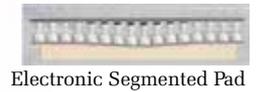
Automatic N.C. Operated
• Hinge recessing.
• Lock face plate recessing doors slots etc.



Louvers



PROFILE SANDER / LACQUER SANDER



Electronic Segmented Pad



Portable Saw Mill

Horizontal Mill



High Speed Router

Multi Boring Machine



Frame Saw

Straight Line Rip Saw

Multiple Rip Saw



Auto Panel Saw

Hydraulic Hot Press



Vertical Band Re-saw

Rectangular Tenoner DAD-115



Oscillation Mortiser MOM-130

Spindle Moulder

Automatic Through Feed Edge Banding



High Frequency Edge Glue Press

Clamp Carrier



Four Side Moulder

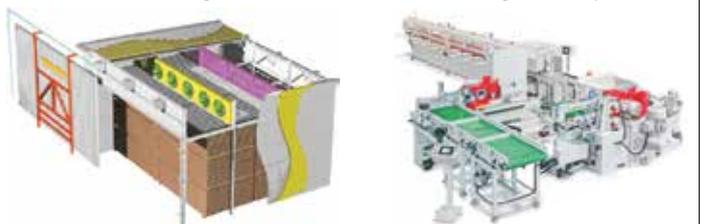
Double Side Planner

Heavy Duty Automatic Copy Shaper



Seasoning Kiln

Automatic Finger Joint System





新品首发
 商贸首选
 Better Life
 Better Work

BETTER LIFE BETTER WORK

The 43rd China International Furniture Fair (Guangzhou)



www.ciff.furniture

2019 GUANGZHOU PAZHOU

China Import & Export Fair Complex PWTC Expo NICEC
Phase 1 18-21 March 2019 **Phase 2** 28-31 March 2019



Quality Abrasives



Authorised Distributors for:



MADE IN KOREA | SINCE - 1963

Shivakumar. C

No.5, Telecom Layout
New Timberyard, Bangalore-560 026.

Ph : 080 - 26745000, 26745858

Mob : 9972048166 / 9632585858

e-mail : cskshiva@yahoo.in

PAINT CONSULTANT

Wood Finishing Consultant

Deepak Chaudhari
Surface Coatings Technologist
Cell +91 9371025979, +91 9225539045
www.woodfinishingconsultants.com
Neelkamal, 925, Shivajinagar, Behind Deendayal Hospital
FC Road, Pune, 411004, India.
E mail - woodfinishingconsultant@gmail.com

Expert in UV Cure Coating Technology

- Set up new Green-field Wood Finishing Plant
- Modification or upgradation of existing plants / systems
- Simple Automations, Optimised Tailor made solutions
- Frequent updates on new Technologies
- All types of Wood finishing Jobs -
- Doors / Windows / Furniture/ Kitchens,
- Spray-Booth systems guidance
- Hi Gloss Prelam Boards , Veneer Boards
- UV Cure & PU Combo Finish
- Manpower Training

Simple Automations

Master Trainer for PCSC & NSDC for Wood polisher

TOOLS

Accutec FIM UNIVERSAL

Amit Kumar 6284908747

PUNJAB TOOL MART

Shop No-33, 1st Floor, Janta Market, Opp. NRI Enclave, Jhugian Road, SAS Nagar, Kharar-PB-140301
E-mail: info.punabtoolmart@gmail.com, punjabtoolmart@gmail.com

PACKAGING

WINSOL ENERGY SYSTEMS
Timber Processing Plants for Packaging, Furniture, Handicrafts, Door and Windows Industries...Since 1995

ISPM 15

MANUFACTURER AND EXPORTER OF WIDE RANGE OF TIMBER SEASONING KILNS, TIMBER IMPREGNATION PLANTS, TIMBER PHAT PLANT AS PER ISPM 15 NORMS AND ALL KIND OF HEATING AND DRYING SYSTEM.

400/1 & 2, GIDC, Opp. New Water Tank, Vitthal Udyog Nagar - 388 121 (Gujarat), INDIA
T, +91 2692 233677/236228 F, +91 2692 236228 E, winsolenergy@gmail.com W, www.winsolenergy.co.in

BAU 2019

14-19 January, 2019

Venue: Messe München, Munich

BAU, the world's leading trade fair for architecture, materials and systems, takes place every two years. Everyone involved in the international community for planning, building and designing buildings including architects, planners, investors, representatives of the industrial and commercial sectors, the building trades, comes together here. It is where future-oriented manufacturers come together with an audience of interested professionals whose primary interests include the latest techniques, materials and applications that can be put to use in actual practice. This is where visitors experience the future of building.

www.bau-muenchen.com

MAGNA EXPO MUEBLERA INDUSTRIAL

16-18 January, 2019

Venue: Centro Citibanamex, Mexico City

The 23-year-old Magna Expo Mueblera will provide specific business platforms for each segment to create better business opportunities for everyone in attendance. It is trade fair focused on technology, machinery and material supply for the forestry, woodworking and furniture manufacturing industries. The show will present all trade visitors with a wide and well-structured range of products, providing a useful platform for business and information exchange and innovation display for all participating subsectors and will open up new opportunities for your business.

www.hfmexico.mx/MEMIndustrial/en

NEPAL WOOD INTERNATIONAL EXPO 2019

15-17 February, 2019

Venue: Bhrikutimandap, Kathmandu, Nepal

The Expo is Nepal's Largest and the most successful exhibition and trade fair on woodworking machinery, tools, fittings, accessories, raw materials and products. The show avails its participants and visitors an opportunity to exhibit, exchange, invest, progress and be a part of the Nepalese woodworking, building, construction and engineering industry, at a pace newly accomplished. Exhibitors can showcase their potential by providing detailed demonstrations of latest products and services, within industry segmented pavilions. The exhibition features the presence of a plethora of knowledgeable and influential stalwarts from the woodworking, machinery and finished wood sectors.

www.nepalwood.com.np

IFFS

9-12 March, 2019

Venue: Sands Expo and Convention Centre, Singapore

With over three decades of experience since its inaugural event in 1981, the International Furniture Fair Singapore is regarded by industry experts as Asia's premier sourcing platform and design-led exhibition. The event will feature a comprehensive range of furniture, furnishing, decorative accessories, interiors and fittings by a diverse portfolio of exhibitors, as well as offer an unparalleled access to the latest technological machinery development.

www.iffs.com.sg

THE BIG 5 SAUDI

10-13 March, 2019

Venue: Jeddah Centre for Forums & Events

The 9th edition of the kingdom's premier and fastest growing construction show, the Big 5 Saudi, will be the strongest platform for construction industry suppliers and manufacturers to profit from the huge Saudi construction market – set for another period of significant growth. On the exhibition floor, you can learn about new trends, find the latest local and international products and quiz their manufacturers and distributors about how they might help in your next project.

www.thebig5saudi.com

DELHIWOOD

13-16 March, 2019

Venue: India Expo Centre and Mart, Greater Noida

The 6th edition of the Indian furniture manufacturing industry's eagerly anticipated biennial event will showcase modern automated solutions in furniture and wood-based production technologies, to help the industry to tap into the US\$ 35-billion furniture market. Production technologies covering machinery, tools, fittings, accessories, raw materials and products will be displayed and demonstrated over 31,000 square metres of space.

www.delhi-wood.com

DUBAI WOODSHOW

12 - 14 March 2019

Venue: Dubai World Trade Centre

Dubai Wood Show is the premier destination for wood specialists who visit the show every year from across the globe. It is the region's only dedicated business-to-business meeting place for the wood, wood accessories and woodworking machinery industry. The 14th edition of the show will continue providing a perfect platform for suppliers, manufacturers & machinery companies to showcase their products, innovative technologies, production scenarios and large scale machinery to key players in the wood & woodworking machinery industry in the Middle East and North Africa region.

www.dubaiwoodshow.com

FIMMA BRASIL 2019

26-29 March, 2019

Venue: Parque de Eventos, Bento Gonsalves

FIMMA consolidates the wood and furniture industry of the region under one roof for four days and creates conditions for exhibitors and visitors keep the focus on solidifying partnerships. It hosts more than 600 exhibiting brands, and receives visitors from more than 40 countries.

www.fimma.com.br

CIFM/INTERZUM GUANGZHOU

28-31 March, 2019

Venue: Pazhou Complex, Guangzhou

This is the most influential trade fair in Asia at furniture production, woodworking machinery and interior decor industry. Over 1,500 exhibitors will showcase an international mix of the latest technology in furniture production, featuring over 85,000 visitors from home and abroad at this flagship fair. The 2018 event covered an area of 150,000 square meters, with a total of 1,459 exhibitors, including 340 companies from abroad. The four-day event attracted participation from a total of 132 countries and regions, and a record 89,858 visitors showed up to sniff out the latest and best products.

www.interzum-guangzhou.com



● Commercial Ply ● Marine Ply ● Shuttering Ply ● Checkered Ply ● Flexi Ply ● Fire Retardant Ply ● Block Boards ● Flush Doors

EVEREST PLY®
BEST PLY FOR EVER

Toll free no 1800 4252 130 | www.everestply.com

6th

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

DELHI WOOD

13 - 16 March 2019
India Expo Centre & Mart,
Greater Noida, India

Give Wings to Your Business Goals

Adapt the Latest Technologies

Highlights

- 42,000 + Sqm Exhibition Space
- 550 + Exhibitors
- 35 Countries Exhibit
- 100 + Product Launches
- 500 + VIPs and Media
- 30,000 + Trade Visitors
- 103 Companies Exhibiting For The First Time
- 11 Country Pavilions
- Product & Technology Demonstrations of Over 500 Woodworking Machines
- International Timber Forum by WoodNews
- Skill Demonstrations by FFSC, Government of India

Pre-register your visit today

www.delhi-wood.com

Supported & Endorsed by:



Chief Patron:



Associate Patron:



Principal Official Publication:

WOODNEWS

Official Publication:

**W^{MODERN}
OODW^{RK}**

Media Partners:



E-media Partners:



Organised by:

NÜRNBERG MESSE

In Cooperation with:



Supported by:



For bookings, Please contact:

Pradeep Kumar Gopal,
Project Director,
E : pradeepkumar.gopal@nm-india.com
M : +91 9986066910

Belliappa M K,
Project Manager,
E : belliappa.mk@nm-india.com
M : +91 9916092922

NürnbergMesse India Pvt. Ltd.
707 - 708, 7th Floor,
Prestige Meridian 1, 29, M G Road,
Bengaluru - 560001.
Tel: +91 80 4674 8888
Website : www.nm-india.com

Registered Office:
"German House"
2, Nyaya Marg, Chanakyapuri,
New Delhi- 110021, India.

By Metro

Delhi Metro is the fastest and most convenient mode of transport to reach DelhiWood 2019 venue. The commute from Botanical Garden Metro Station is available.



FREE Shuttls

Continuous special free shuttle buses will be made available from the Botanical Garden Metro Station, Noida to the exhibition venue.

ENTRY FOR TRADE VISITORS ABOVE 18 YEARS ONLY.

"MADE IN TAIWAN" noun

Definition: Might not be the cheapest but always a bargain for manufacturers who value product quality and service with integrity more.

30 Year of High Quality Cutters Still In Action



Heavy Duty Helical Planer Cutter Heads with Changeable Knives
Knife: 14 x 14 x 2 x 30°
14 x 14 x 2 x 37°



Heavy Duty Helical Planer Cutter Heads with Changeable Knives
Knife: 30 x 12 x 1.5 x 35°



Helical Planer Cutter Heads with Changeable Knives
Knife: 15 x 15 x 2.5 x 30°
15 x 15 x 2.5 x 37°



Safety Corrugate Cutter Heads with HSS Knives



Adjustable Planer Cutter Heads with HSS or T.C.T Knives

Spindle Shaper Planer Cutter Heads with Changeable Knives
Knife: 30 x 12 x 1.5 x 35°
50 x 12 x 1.5 x 35°
60 x 12 x 1.5 x 35°



Changeable Knives / T.C.T



Spindle / Duple Surface Planers Helical Planer Cutter Heads with Changeable Knives
Knife: 14 x 14 x 2.0 x 30°
15 x 15 x 2.5 x 30°
15 x 15 x 2.5 x 37°
30 x 12 x 1.5 x 35°
30 x 12 x 2.5 x 35°
14.6 x 14.6 x 2.5 x 30°



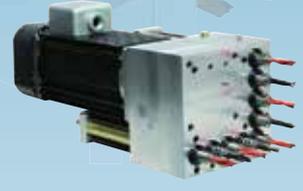
We Can Customize for Your Request



CNC Drilling Heads Series



CNC-WF3213L-2S-2H



CNC-WF3209L



H707+WFV3202



H707+WD213

CNC Drilling, Boring and Aggregate Heads Series



WHC3018



WFC3019

Adjustable Drilling Heads Series



WD213

MODEL	PITCH
WD211	14-82mm
WD212	32-160mm
WD213	18-100mm



WD315

MODEL	PITCH
WD314	14-96mm
WD315	20-122mm
WD316	32-192mm

CNC Tool Holder and Collet Series

HSK63F Series



Collet Type:
ER32/ER40/OZ25

ISO30 Series



Collet Type:
ER32/ER40/OZ25

Collet Series



ER11/ER16/ER20/ER25/
ER32/ER40/OZ25

Adaptors and Quick Change Chuck Series



AGENT WANTED

एजेंट चाहते हैं



TONG FONG CUTTERS CO., LTD.

No. 347, Pei Yang Rd., Feng Yuan, Taichung 42084, Taiwan
Tel.: +886-4-2522-8562 Fax: +886-4-2528-1127

<http://www.tongfong.com.tw> E-mail: tf cutter@ms47.hinet.net



Wen Chih Machinery Industrial Co., Ltd.

Tel.: +886-4-2523-8221 Fax: +886-4-2528-9737

No. 3, Alley 37, Lane 535, Sec. 2, Feng Shih Rd., Feng Yuan Dist., Taichung, Taiwan

E-mail: wen-chih@umail.hinet.net <http://www.wenchih.com>



- ★ We Make Custom Cabinet Doors
- ★ We Use Rubber Wood, Teak Wood, Beach Wood.
- ★ 15 Days Delivery.
- ★ 16 Years Experience.
- ★ 100% On Time Delivery.
- ★ High End & Affordable.



Solid Wood Cabinet Doors

KALINGA CRAFTS

No.1/6, Thirumalayan Nagar,
Alagappa Puram,
Iluppakudi Road, Karaikudi -3,
Tamil Nadu.
Ph : 04565 221927
Mob : 94431 35823
mail : kalingacrafts@gmail.com

www.powermax.com.tw

POWERMAX

The powerful sanding performer,
maximizes your production rate!



WIDE BELT SANDER



PLANER SANDER

Visit Us at
DE JHI 2012
WOOD
Booth: H14 E518



POWERMAX MACHINERY CO.

Taiwan-made Products!



WOODTECH

M/S WOODTECH CONSULTANTS PVT LTD.

Tel: +91-080-2836-4584/85 E-mail: info@woodtech.in
Fax: +91-080-2836-1166 www.woodtech.in

No. 12, Lane 175, Ta Chou Rd.,
Sheng Kang Dist., Taichung 42941, Taiwan
Tel: +886-4-25234156 Fax: +886-4-25276811
Email: sandmax@ms13.hinet.net

COMPANIES IN THIS ISSUE

Company Name	Page Nos.	Page Nos.
--------------	-----------	-----------

Machines & Tools

Accutec Wood Tooling Systems		87
Altendorf	46	17
Barberan SA		49
Biesse	30	15, 127
Biramha Moulding Blades		111
Bosch Power Tools	64	59
Caple		47, 121
Chopal Timber Co	46	
Delux Udyog	46	
E-Chain Machinery Co. Ltd	122	143
Felder	48	11, 131
Ferro Tiger	48	
FlexAFlex Hoses Industries		139
Guru Amar Industries	85	67
HiKoki Power Tools India Pvt. Ltd.		69
Holytek		3
Homag	32	13
HR Industries		65
Hymmen	132	
Jai Industries	28, 138, 144	25, 63, 117, 135, 148
JJ Wala	48	
Joway	36	51
Kalyan Industries		169
Kanefusa	48	
Kapasi		39
Kaymo	48	
Kuper	52	
Leitz	26	97
Levigo		IBC
Nitshaw Technologies		2
Perfect Machine Tools		76-77
Powermax Machinery		176
Precitec Saw Industries	48	
Punjab Tool Mart		172
Sames Kremlin (Excel Finishing)		53
Schmalz India Pvt Ltd		129
SCM	52	
Shree Umiya		103
Shreepal Impex (AKE)	60	35
Shreepal Impex (BVC)		65
Shreepal Impex (Fe Matech)		115
Shreepal Impex (RIEPE)		109
Siemplekamp		4
Srichakra Engineering		105
Termolegno	34	
Vijay Engineering Corp	48	
WACO		89
Wemhoener Surface Technologies		71
WEN CHIH/ TONG FONG		175
Windsol	48	172
Wood Master		93
Wood-Mizer	40	91
Woodtech Consultants	56, 42	54-55
Yow Cherng	42	143

Materials & Products

Action Tesa	46	
Africa View SA	82	
AM2PM	46	
Aristo India	46, 102	57
Aryamman Interiors	60	123
Asia Pacific Exports (APE)	88	
Bhutan Board Exports Ltd		133
Blum		27
Bram Woodcrafting Studio	62	
Cedar Décor	46	
CenturyPly	134	
Dewanta Forestry		115
Dovetail Furniture Pvt. Ltd.	141	
Ebco	38	5, 41, 125, 167
Echon	48	
Egger	51	
Equatoria Teak Company	40	

Company Name	Page Nos.	Page Nos.
--------------	-----------	-----------

Eternsoft Innovation	124	111
Everest Ply		173
EVI		178
Frenchman Wood Coatings		73
Gabon Veneer Sarl	90	
Greenply Industries	86	
Häfele	126	
Hardy Smith	128	
Hettich	128	BC
ICA Pidilite		37
Innofit		119
JB Glass		75
Jayaraj		81
Kalinga Crafts		176
Kleiberit		31
Maxon Doors		137
OPES		61
Omare		9
Pidilite		101
Plantag Coatings		168
Praveedh Décor		43
Quality Abrasives		171
Relwood	48	
Richwood	48	29
Royal Timber Store	48	
Rushil Décor	34	
Salice	130	
Sauerland Spanplatten (Sleek Board)	48	145
Shreepal Impex (Renolit)	58	45
Shreepal Impex (Timbermate)		133
Skydecor	48	
Slovyanski Shpalery-KFTP	44	
Soni Polymers		139
Sparkletop		113
Sun Veneer	92	
Superbond	48	
Tiara Kitchens		147
Ventura International	136	
Wood Finishing		172
WoodPro Industries	94	
Xtraroom	104	

Industry Services

American Hardwood Export Council (AHEC)	100	
Canadian Wood	50	IFC
CIFF (China International Furniture Fair)	68	170
DELHIWOOD 2019	20	174
EPCH		107
Gabon Special Economic Zone (SEZ)	78	7
Gabon Woodshow 2018	96	
International Tropical Timber Organization	142	
Interzum 2019	70	33
Ligna	72	
Malaysian Timber Council (MTC)	74	
Malaysian Wood Expo 2019	74	
Massachusetts Institute of Technology	110	
Narsi		1
Partha Ghosh		129
PEFC	140	
Quebec Wood Exports Association (QWEB)	140	
Swedish Wood	48	19
Wood & Metal Store	62	

Editorial

Advertisement

Printed by V. Krishnamoorthy, published by Pradeep Devaiah on behalf of PDA Trade Media, printed at Repromen Offset Printers Pvt. Ltd., Plot 125A, Bommasandra Industrial Area, Anekal Taluk, Bangalore - 560 099 and published at 32/2 Spencer Road, Frazer Town, Bangalore, 560 005
Editor: Dhananjay Sardeshpande.

EVVI[®]

VERNICI
PAINTS & COATING SOLUTIONS

Italian WOOD FINISHES & GLASS PAINTS

Product Range:

- UV by Roller / UV Dual Cure by Spray
- Acrylic
- Polyurethane (Solvent base / Water base)
- Polyester (Horizontal / Vertical)
- Polyacrylic
- Water Borne for Interior / Exterior
- Wood Preservatives
- Fire Retardant Polyurethane
- Polyacrylic / Polyurethane for Parquet
- Special Effects for Wood
(Crackle, Marble, Hammer, Sparkle Pearl & etc.)
- LEED Certified Low VOC Polyurethane
- Wood Stains
- Wood Fillers
- Nitrocellulose
- Solvents / Thinners
- Water base Liquid Masking Film
- Glass Paints (Solvent Base / Water Base)



we make the *difference*



Sole Distributor in India:
Indocem India Pvt. Ltd
Indocem House, #327/5, Mysore Road,
Next to BHEL, Bangalore:560039
Karnataka State, India
Tel: +91 962 020 9020
Email: ketan@indocem.com

Distributor for Delhi, kolkata
& North India enquiries are Solicited

Mr. Rajiv : +91 8892728150
Mrs. Himat : +91 9844135846

Branches:

Mumbai: +91 9833226242
Ahmedabad: +91 9377512208
Goa: +91 9158187575
Coimbatore: +91 9620209002
Hyderabad: +91 9741038223
Surat: +91 7698000888

**Worlds Best
Wide Belt Sander**

**Manufactured
In India
Since 2009**



**European
Quality
at a Very
Competitive
Price!!!**

CRITICAL COMPONENTS IMPORTED FROM ITALY.

Wide Belt Sanders for Furniture, Plywood Industries
Lacquer Sanding & High Gloss Sanding



COSTA LEVIGATRICI S.p.A
Via Venezia, 144-36015 Schio (VI) Italy
Tel. (+39)0445-675000
Fax(+39)0445-675110
www.costalev.com - info@costalev.com

Authorised agent in India:

WOODTECH

WOODTECH CONSULTANTS PVT.LTD
31/2, Nadkerappa Industrial Estate
Andrahalli Main Road , Near Peenya 2nd Stage,
Viswaneedam Post, BANGALORE - 560 091
Tel: +91-80-2836 4584/2836 4585
Email: info@woodtech.in; Web: www.woodtech.in

Manufactured Under Licence From Costa Levigatrici, Italy



AN ISO 9001: 2015 Certified Company

LEVIGO ENGINEERING INDIA PRIVATE LIMITED
No-38/1, Nadkerappa Industrial estate,
Andrahalli Main road, Viswaneedam Post,
Bangalore- 560 091. Website: www.levigo.co.in
Email: vasanth@levigo.co.in; marketing@levigo.co.in
Mob:- +91 9686449482, +91 7338196910



**FREE
INSTALLATION
SUPPORT**
Only for InLine XL &
TopLine XL Fitting

Insist on Hettich furniture fittings while buying your furniture or getting it made.

Toll Free: 1800 209 2096

Create More Room in the Room.

Synchronised 4 door Sliding system for Large wardrobes, up to 4 mtr wide, soft opening & soft closing: TopLine XL Synchro

Master Catalogue



* Conditions Apply

Installation Video
TopLine XL



Interested?
Explore Design options



* Refer Website

Technik für Möbel