



journal **furniture**

july 2013

Interzum 2013: the latest from Köln

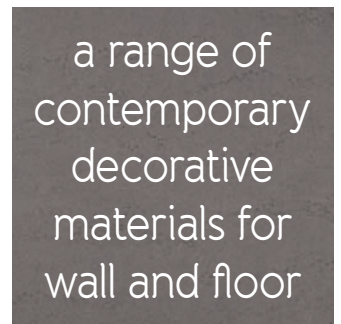
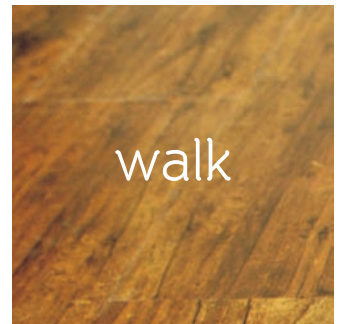
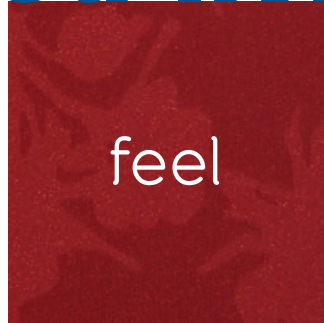
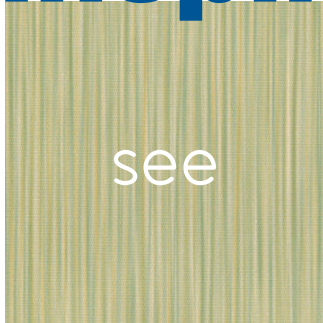
Décor trends

Hornschuch swoops on copies of its designs

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cover photo

The iMagic TA high volume drilling machine made its debut on the IMA stand at Ligna 2013. The servo-controlled drill axes allow for maximum quality at the greatest possible feed rate. Read more about IMA's Batch Size One solution on pages 40-41.

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IBC MACHINE SHOP

contents



Celebrations are planned for this year as Combilift, Ireland's specialist forklift manufacturer, marks 15 years of business. Established in 1998 by Martin McVicar and Robert Moffett, the company has achieved success on a global scale with the 4-way forklift range thanks to substantial investment in R&D and acting on customer feedback. And the future? "The strategy is to double the turnover in the next 5 years," says Martin McVicar, "and we expect to produce over 3,000 units in 2013".



IDS has appointed Geoff Coe as Key Account Manager for Panel Products, responsible for the Northern Region. Geoff has vast experience of the construction and furniture sectors after working at Marshalls and Norbord. He said that "IDS has a sophisticated melamine and wood-based panel offer and we want to bring a special focus to this to help our customers maximise the profitability and performance of their ranges."



business news

The German surfaces company Konrad Hornschuch AG has expanded by acquiring the coatings specialist era Beschichtung GmbH. Hornschuch has been one of era's largest customers recently and although the company's name will change to Hornschuch Stolzenau GmbH the well-known product brand era will continue, together with all jobs and some company management. Hornschuch will use the new factory capacities with regard to the further development of international markets.

schelling has the solution

Starbank Panel Products Ltd, a family owned and operated business, established in 1976, is one of the leading companies specialising in high pressure laminate fabrication, postforming, state-of-the-art CNC component manufacture and solid surface fabrication.

The secret to Starbank's success lies in their high level of technology and craftsmanship. The latest production technology is combined with the hand build skills of the workforce to make the appeal of the Starbank brand. Philip Darbyshire, Managing Director at Starbank says, "We are immensely proud that what began as a 6-man team has grown into a 100-strong workforce and our investment in state-of-the-art technology is part of a conscious policy to invest in what we consider to be the best technology on the market".

Already familiar with the high service levels and build quality of Schelling as they operate a Schelling FT-H Evolution 430 cut-to-size saw, it was natural to turn to Schelling again for a brand new saw and board storage system. Philip Darbyshire explains that to achieve the production targets set by Starbank it was essential to organise the cutting solution with board handling against a background of factory space limitations. Starbank customers can select from hundreds of different materials and colours that meant that countless wooden pallets swallowed up approximately 450m² of factory space.

The VS16 area storage system solution is to use 'chaotic stacks' up to a height of 2m and storage zones up to 16m wide and 20m long, so that a wide range of board sizes and types can be stored in just one location. Up to 2,500 board options are automatically collected and delivered to the saw at travel speeds of 150m/min in the X and Y axis and 60m/min in the Z up down axis.

Work pieces from 2.1m to 4.1m and 0.6m to 2.1m wide are transported onto the infeed aligning table of the FH6 cut-to-size saw and material can be loaded while the saw is still cutting the previous job.

The VS16 board storage system is now capable of reading the complete cutting list and loading the FH6 saw in the most productive manner - an important factor as up to 50% of the panel cutting process is taken up by manual panel handling. The High Performance Optimisation software calculates the cutting planes and shows them to the operator on a 22" TFT screen. The Storage Manager software at the heart of the board storage system is clear and easy to use and can be accessed, with the MCS Evolution saw control system, from a single communications platform.

The FH6 saw meets the same impressive performance of the VS16 and with a saw blade diameter of 460mm it provides a saw bladed projection of up to 135mm, an insert speed of 80m/min and a saw travel speed of up to 150m/min. Starbank chose the air flotation machine table-bed option to protect their sensitive high gloss surfaces and the internal turning device, which allows for head cut patterns without any interruption to the production flow was chosen to achieve a high level of automation. The option of the DUPLUS2 system and a sophisticated aligning device was included to accommodate overhanging laminates.

Philip Darbyshire says, "Working with Schelling the aim was to create a storage, handling and cutting solution that delivered improvements in productivity and efficiency, better warehouse utilisation, a reduction in manual handling and safer working conditions: the solution has achieved everything and more."



**contact Schelling on
01937 586340
or visit
www.schelling.com**





Left: Hacienda Black (MFC Textured Woodgrain), Blue Metal (Glass) and the Quadro profile in matt aluminium.

Below left: Mali Wenge (MFC Textured Woodgrain), Stone Grey (Matt Vinyl Wrapped) and the Quadro profile in matt bronze.

Below: Grey Brown Avola (Textured Woodgrain Vinyl Wrapped), Pure White (Glass) and the Curva profile in matt aluminium.



super sliders

The Volante sliding door system from East Coast Fittings is now available in a comprehensive selection of finish options, affording the utmost flexibility. However, to provide even more variety, ECF has introduced three fashionable new MFC woodgrain finishes to the current offering. Mali Wenge, Hacienda Black and Grey Bardolino Oak are high quality, sophisticated choices designed to look stunning in any setting.

A new profile has also been added to enhance the range: Quadro's modern aesthetic brings a touch of style to any room and provides the perfect contrast to the softer lines of ECF's existing Curva profile. Available in a matt aluminium or matt bronze finish, Quadro is guaranteed to make an impact.

Standard configurations are available, or modifications can be ordered where a bespoke option is required.

Volante sliding doors combine contemporary styling with the flexibility of a made to measure service and their space saving potential makes them a highly practical solution. The Volante system also offers a smooth opening and closing action and comes with the addition of built-in soft closing for an extra touch of luxury. All Volante sliding doors are manufactured in Great Britain to the highest standards, ensuring you get the look you want without compromising on quality.

For further information, contact East Coast Fittings on 01664 424288 or visit the company's website, www.ecf.co

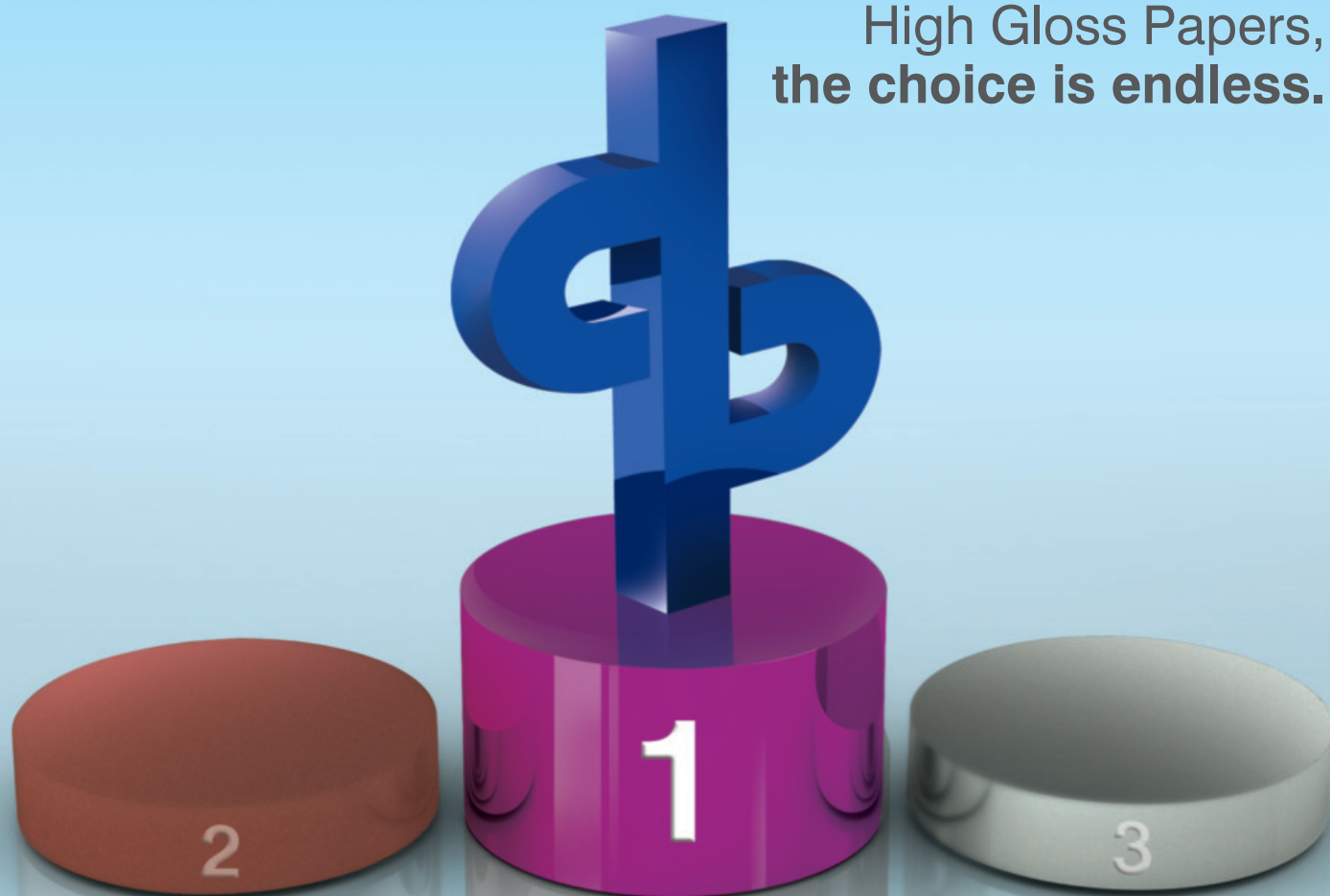
*East Coast Fittings
launches a new collection
of sliding door systems -
all made in the UK.*



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ECF INTRODUCE NEW IN-FRAME DOORS

A timeless design that offers the perfect blend of contemporary and modern, Devon and Cornwall doors are the latest range of painted timber doors from East Coast Fittings (ECF). Presented in the classic in-frame style and constructed from solid birch, the doors come in a number of popular standard sizes and are available 'pre-primed' or finished in 13 exquisite matt painted colours. Shown is Cornwall in-frame in Chalk Down.

Butt hinges are used to give that traditional in-frame look but standard concealed hinges can be used instead. Faux butt hinges are then supplied to maintain the character of the kitchen without losing the advantages of modern soft closing concealed hinges.

There is also a wide range of high quality cabinetry and a selection of elegant accessories to provide ultimate variety in kitchen design.

01664 424288

www.ecf.co



HANEX RIDES TO VICTORY

Hanex solid surface was the shopfitter's choice with the re-design and fit-out of cycle accessory shop Assos in Frankfurt, Germany. High quality free-standing displays fixtures and wallpanelling were constructed from Hanex 6mm and 12mm S-008 N-White acrylic solid surface. Smooth to the touch and sleek to look at, Hanex offers great fabrication flexibility for achieving tight corner radii and curves as required.

Available nationwide in the UK from IDS, Hanex solid surface is the perfect choice for shopfitting as it is both durable and easy to clean. Because the material can be re-finished back to its original pristine condition, the lifespan of an interior is extended before refurbishment becomes necessary.

There are 80 finishes to choose from, including plain colours, sparkling and natural stone and translucent finishes. On all décors the product comes in sheet sizes 12x3680x760mm, and in sizes 6x2490x760mm on specialist ranges. Hanex acrylic solid surface material can be easily jointed, thermoformed into 3D shapes and back-lit on selected designs. It boasts the highest European fire rating and NSF51 food hygiene certification to give outstanding performance in public spaces.

The website www.hanex.co.uk features fast and easy sample ordering as well as brochures, comprehensive technical information and certification downloads.

IDS, the UK's largest distributor of surface materials, has 12 regional branches with over 12,000 product lines available ex-stock. Core products are delivered in 24-48 hours from order.

08457 298298

www.idsurfaces.co.uk



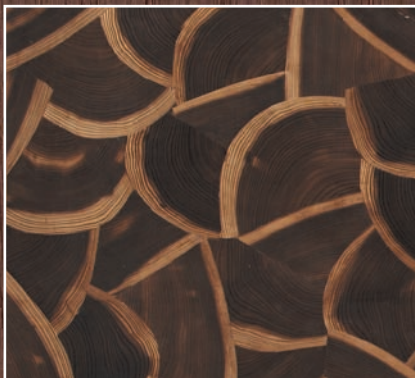
The new LB07 range of pre-laminated boards from Kronoswiss are now available from IDS, their exclusive distribution partner. A good value engineered alternative to laminate with improved performance over melamine faced products, LB07 is particularly suited to furniture that is subject to heavy wear and tear and frequent cleaning, such as in hospitals, schools and offices. In retail applications LB07 can be a cost-effective substitute to the MDF laminated with HPL.

Made from an 18mm MDF core multi-layered with the paper and melamine overlay and then pressed together under high temperature and pressure, LB07 comes in a larger sheet size of 2800x2070mm than traditional laminate boards. There are 15 décors available ex-stock including primary tones, woodgrains and neutral shades. A further 300 décors come from the Swiss Panorama Collection on a short lead time.

08457 298298

www.idsurfaces.co.uk

SURFACES



interzum
REVIEW

With its fabulous new CoCo veneer product Schorn & Groh underscored its role as an innovator in the veneer business. The new CoCo is genuine veneer in a range of brown shades which results from a manufacturing technique similar to the natural process that creates bog oaks. The tannic acid in the wood lying in acidic anaerobic wetlands reacts with marsh gases to create the rich dark brown to black colouring. To make CoCo, high-quality veneer is naturally dyed in a very short time. The environmentally friendly process involves no harmful substances and the veneer remains supple as it is not exposed to extreme heat during processing. The colouring is highly UV-resistant. The new veneer product is currently available in four different shades of oak: Taupe CoCo, Cognac CoCo, Coffee CoCo and Nero CoCo. It is sold as raw or spliced veneer. Shown is Cognac.

Top pictures: Butt Cut is another new product from Schorn & Groh: razor-thin veneer cut from end-grain wood. Its fascinating all-natural look comes from the matching of hundreds of small veneer leaves. Schorn & Groh currently offers Butt Cut in eight design variants. Shown above are a smoked Larch called Wood Stone (top) and New Type (Mutenye).

Details: 0049 721 962 450
www.sg-veneers.com



On a fabulous stand, Egger showed its brand new Virtual Design Studio (above) which projects any Egger décor onto a lifesize image of a kitchen layout - wherever each décor is required. Imaginative manufacturers with retail outlets who want to provide a real selling point for customers will appreciate its potential to demonstrate colours and layouts. It's way better than on-screen alternatives.

Egger also showcased its prowess in digital print with a section of the stand dedicated to demonstrating the extreme realism the company is now able to offer (left) manufacturers who want unique designs, or short runs. Only to the touch were the differences discernible.

Call 01434 602191, www.egger.com



interzum

If the industry has a barometer to indicate optimism in the market, there's no doubt that Interzum is it - and at Interzum 2013 it was pointing to the return of high pressure and sunny times. Across every segment, new products and new technologies were introduced to burgeoning crowds and on most of the stands we visited, the story was the same: sales were being made and deals were being done. Of course, the proof of any exhibition's success comes not at the show but afterwards when the show talk has died down and the numbers tell a story of their own - but at least the signs in 2013 have been especially positive and that's good news.

The emphasis across all sectors is on design. Even in the hinges and slides sector, where functionality has been the priority and the battles have been for supremacy in engineering and ever softer, smoother operation, the emphasis has shifted to aesthetics. From Grass, the super slimline 13mm wide Vionara slide, first seen at Sicam last autumn, made its official debut to rapturous applause while Salice's new streamlined Lapis made its

first appearance on a stand that rivalled the Ritz for plush. Hettich launched new and very slick sliding door systems and Blum presented its new Aventos HK-XS small stay lift - so small and neat it's ideal for installation above refrigerators and larder units. Samet, meanwhile, had called in Chicago-based Defne Koz and Marco Suzani design team to redefine the very meaning of hinge, slide and stay, putting fittings centre stage in modern furniture design.

Colour has become much more important, not just in décors but now in everything from hinges to castors and other fittings once deemed purely functional. Designer fittings had extended into *choose your material and design your own handles* on the Gamet stand. And across the board, colours remain bright and optimistic.

In the décor sector, the trends suggest a calming of the super-bright, acidic unicolours we've experienced over the last year: a mellowing of eye-ball-searing apple greens into softer shades and the brilliant yellows into warm curry tones. Blues have softened

Also new on the Egger stand was a collection of synchronised pore décors which provided realistic tactile and visual appeal in the convenience of a repeatable man-made product. The deep grain structure of the emboss married perfectly with the print beneath. For details call 01434 602191 or visit www.egger.com



Left. Vionaro, the slender 13mm drawer slide from Grass, which made its first appearance at Sicam last autumn, was officially launched at Interzum. Based on the Dynapro concealed drawer slide, Vionaro is minimalism personified, dispensing with everything that is not absolutely necessary to concentrate on simple but elegant basics. The Cubist drawer system provides the perfect complement to the proven Dynapro - and with Vionaro, Grass has retained the running characteristics and synchronised movement and provided the lowest possible opening pull forces and a load carrying capacity of up to 60kg in a slide that's got designer written all over it. The surface is entirely uninterrupted and the drawer side comes in elegant aluminium or steel with a flush, uniform connection to the back panel which can be supplied in either wood or steel. Full three-dimensional adjustment completes the picture.

For more details and specifications call 0043 5578 7010 or visit www.grass.eu

2013

into petrol tones and neutral beiges and warm browns are being shown as ideal partners for the new generation of less rough rustic woodgrains.

Texture continues to rise in importance with many companies claiming pole position in the race towards the ultimate synchronised pore structure and the most authentic synchronised emboss. There is a new realism to oaks and elms - and a new passion for the simplicity of Scandinavian timbers. For the ultimate in easy texture, there was nothing to compare with Renolit's pre-pressed textured panels, available in sheet or roll form for use under vinyl. They add instant designer appeal to furniture without the fuss of routing.

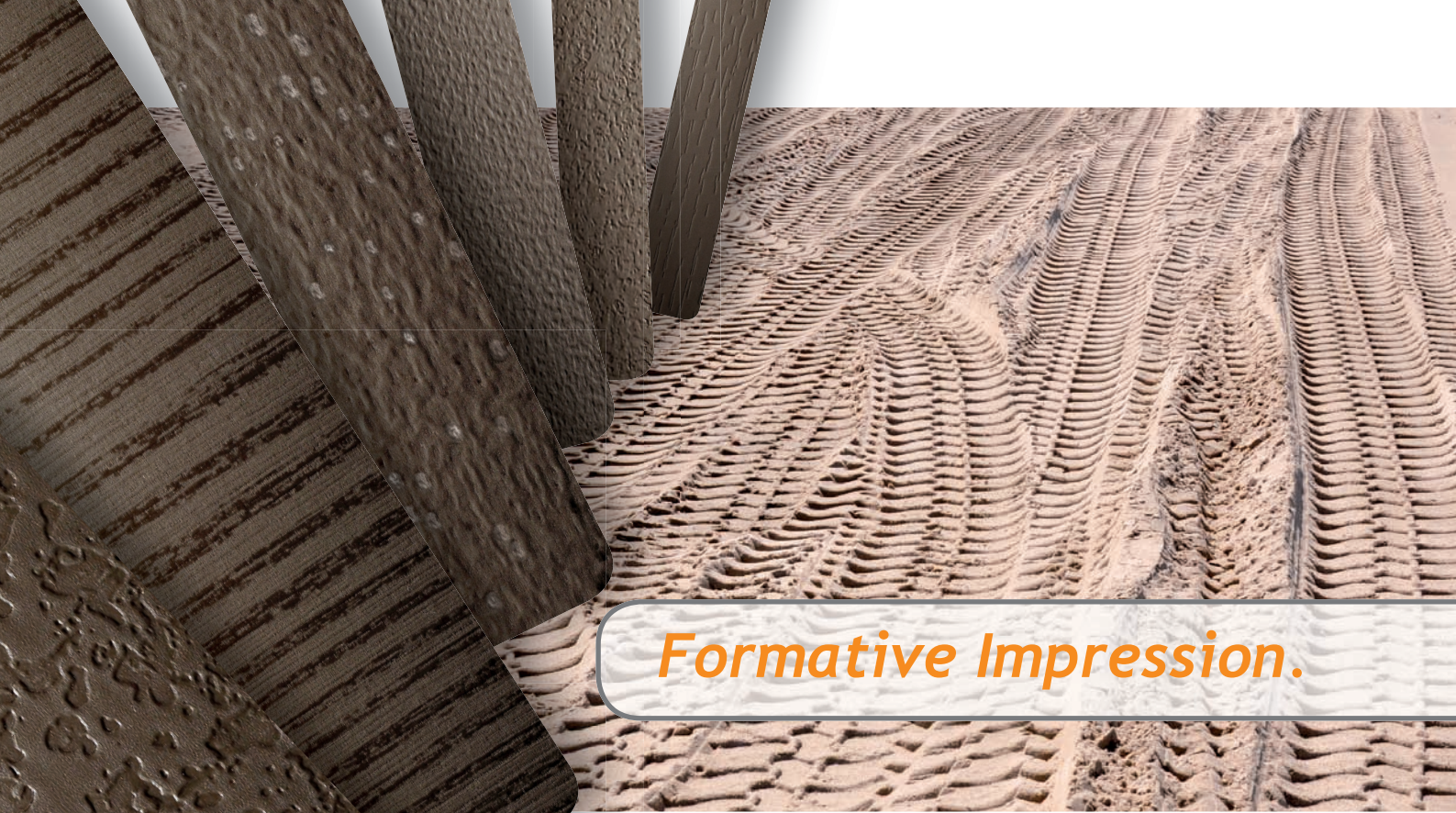
The greatest strides are undoubtedly being made in digital printing. All the major décor companies showed their prowess and the quality was superb across the board. It's expected that, by 2015, Schattdecor will be able to offer digital printing at 140m/min.

All in all, Interzum was a very positive show. The next edition will take place Tuesday to Friday, 5th-8th May 2015.



A new dimension in design, clarity and comfort in tall cabinets was launched at Interzum 2013 by Vauth-Sagel in the form of the new VSA tall cabinet drawer at the 2013 interzum. Equipped with the Premea Artline basket variant with chrome-plated rail and front section made of glass (shown right), the new larder cabinet is a true design highlight behind the kitchen cabinet door. The Classic version is shown above. Vauth-Sagel also used Interzum to extend its range of waste separation systems and show the new makeover version of its best-selling DSA drawer. It's more than merely a 'facelift' as the fitting design for base cabinet side drawers has been completely re-engineered and is now available as a genuinely new product - both visually and technically. Details from Vauth-Sagel on 0049 5272 601 01.





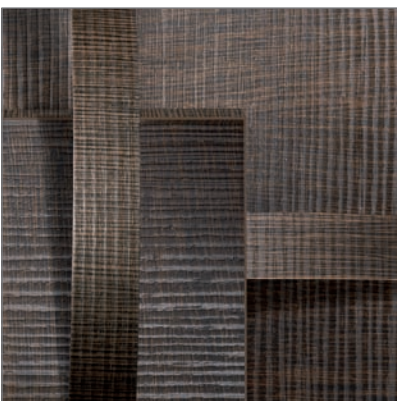
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Guy-Raymond used Interzum to relaunch the company's image with a show of its newest products.



rolling out new ideas

"We're relaunching ourselves," commented Guy-Raymond Engineering's Managing Director, Cedric Daniels, from an Interzum stand that bristled with the very latest castor designs. "We're no longer hiding our light under a bushel. We decided to use Interzum as a launch pad; to present in a new way, from a new stand design - and to show all of our newest products rather than traditional castor designs."

From brightly-lit, open shelves in a glass and chrome design, the range of different finishes offered by Guy-Raymond Engineering - and the options to customise designs for practically any application - attracted over 200 visitors from 48 countries at Interzum 2013. On one shelf, various sizes of castor sported three different brake colours, adding a splash of contemporary colour to an essential element of furniture design we so often see as purely functional. "We offer many different finishes from subtle colours and combinations of colour to black with chrome caps, increasing the options available to designers," confirmed Cedric, adding, "We also manufacture castors for special applications such as care homes, hospitals and other environments where surface protection from microbes is important." Guy-Raymond uses BioCote® silver ion technology in its antimicrobial castors to inhibit the growth of microbes, such as odour-causing and staining bacteria, moulds and fungi. The BioCote® additive disrupts the normal cell function of microbes and prevents their reproduction. Incorporating the additive into the tyre and brake pedal ensures it will not wear off or wash away. Details: 01553 761401, www.guy-raymond.com



interzum

REVIEW

Soft Cover
 DEFNE KOZ
 MARCO SUSANI
 design

Defne Koz, Designer.

samet goes designer

In a bold and daring move, Samet used Interzum to showcase its stylish designer hinge and revolutionary slimline lift - both products of Chicago-based design gurus Defne Koz and Marco Suzani.

It's not enough for Samet that its new Impro hinge outperforms LGA tests with 200,000 cycles. Nor did it suffice that its push-to-open, soft-close slide, Slidea, was a sensation at Interzum. Samet's collaboration with Chicago-based designers Defne Koz and Marco Suzani has transported the Turkish engineering giant into a world of fashion accessories, transforming the humble hinge into a design statement and redefining the boundaries of aesthetics. In a rare interview, designer Defne Koz explains the rationale behind Samet's thinking:

"Samet had reached the point in its product design where efficiency and performance were not enough. In the world of mechanical parts, they felt a design aspect was missing. We were approached with the idea to rethink the hinge from the beginning. We are doing this. We have started with an idea that was inspired by the elegance and sophistication of the furniture itself:

a simple cover that follows the movement of the door. On the one hand, it's aesthetically appealing; on the other, it's very functional, ensuring nothing is trapped or pinched in the mechanism.

"There is no reason why design should not extend inside the cabinet. Why not use a chocolate cover with Wenge - the functionality will not be so striking. Alternatively, you can accentuate white with green or orange. It's a very simple product but one which can make a big difference to furniture.

"We like to be involved with mechanical aspects as well as aesthetics. Hinges and uplifters are very masculine; big and bulky. We asked if it was possible to go the other way. We wanted to gentle-ise the designs. Samet agreed and we've managed to achieve this in a new lift which, instead of being 47mm wide is just 27mm."

Impressed? You'll be even more impressed by a closer look.

Details: www.samet.com.tr



Samet's new uplifter has been slimmed down from 47mm wide to a mere 27mm wide.



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Claudia Küchen, Schattdecor.

"Strong 3D effects, natural colours, rustic elements and saw marks have been on trend for a while. The new generation of décors will continue the theme with high quality and realism in prints but for the coming year, rustic effects will be softer and less exaggerated. Softer colours will replace acid colours and design will lose its starkness. Delicate, fine cracks and fine knots will replace rugged effects in woodgrains. In the past we've seen a lot of beige and brown in combination with woodgrains. The consumers of the future will want to play more with design to create individuality in their homes and they are more willing to mix textures and colours - yellows and blues are coming more strongly. Unusual designs and combinations will provide them with even more individuality. Woodgrains will continue to appear in combination with accent colours but the accent colours of the coming year will be less extreme: soft, inviting tabasco, subtle browns, softer reds and petrol blues. Bright colours stand for optimism - necessary in a crisis - and we will continue to see these in fashion but with a more subtle interpretation. We will see more soft pinks and cosy, feminine, Nordic colours. Knitted structures and graphic designs will play an increasing role and we'll see more interpretations of concrete and stone with warm oaks and heat-treated wood effects." **Three trend areas from Schattdecor's Interzum stand. Call 0049 8031 275 2200.**



décor trends

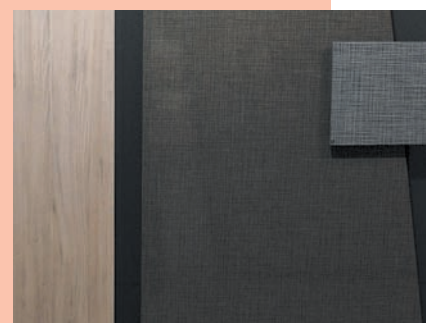


Dirk Slegers, Chiyoda



"Structure is the really big thing at the moment, especially when combined with woodgrain and stone. Solid colours are being given more structure. However, the trend is to create a canvas to set off the colours by using concrete, stone and weathered elements. In terms of woodgrains, oak is still hugely popular but the trend is to bring timbers that have already had a life - reclaimed and used oaks, even fossilised timbers - into the modern environment. We will see

more combinations of unicolours and timbers, super matte finishes with woodgrains, softer rustic effects. The heavy rustic look has gone too far and we're seeing a move away from this. Retro elements are trendy with younger people and there will be an increasingly strong influence from the 1950s - but always with a modern interpretation. The influence of ancient civilisations and their scripts and writing may also start to grow. People want secure and cosy but there is a clear division between the business world and the sensitive world of the home." **Examples from Chiyoda's Interzum stand. Call 0032 896 10711.**



"Now the economic crisis has passed, people feel more free to experiment with interior design and combinations. Colour is still about grey tones and naturals because these allow for brighter accent colours such as yellows, oranges, deep reds, rust, some shades of green and blues from dark to petrol blue. The trend is to replace the really bright colours we've seen in the last year with texture and this will be the main focus for the coming year. The tendency will be to reduce colour, to shrink away from acidics and replace strong tones. The bright yellows of 2012 will become more subtle: curry tones, warm yellows. We will see more deep texture effects, though perhaps not so rough and rustic as in the past. The trend towards roughness of texture reached its height and we are now seeing a more refined approach to texturing. New metallics are coming in - not like the original golds and silvers; metallics mixed with colours, so there is a hint of luxury, maybe a hint of exotic. Luxury is especially important in living rooms. The bathroom, in contrast, will be seen as a wellness temple and this is where we will see more metallics. We will also see the influence of Eastern culture: sometimes cool colours, sometimes warm reds and oranges." **Examples from Renolit's Interzum stand. Call 01670 718222.**



Claudia Hiepel, Renolit

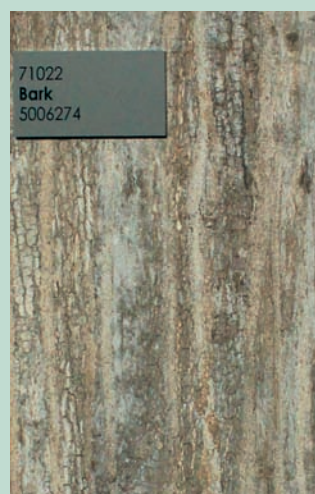


"There's an evolution taking place in design. We've seen the extremes, the revolutionary elements. Now we're taking everything we've seen in the past year or two and applying subtlety to it. Heavy, saw-cut woodgrains with deep cracks and large knots will take on a softer appearance - it's a little bit like we're applying elegance to the rustic trend. Maybe in flooring it will be different but I don't see the heavy rustic elements in the furniture of the future. Rustic as a trend is softening. Woodgrains will still play a significant part in design but we are seeing other natural products influencing design: concrete, stone, slate and bark, for example.

"We've seen strong colours and strong contrasts in the last year. For the coming 2013-2014 year we will see changes. Strong acids are no longer with us. They are too aggressive now. Colours will move in a warmer, softer direction with reduced contrast in smooth designs that underline calm and tranquillity. What's coming up are the pastel tones: pastel light green, pastel yellow, pastel blue. The brilliant yellow that's been around for a while is warming with curry tones and hints of evening sunlight. I think we'll see more of the Scandinavian painted colours in this year's décor schemes, especially blues, greens and soft pinks. There will also be niche elements in the designs, such as interpretations of writing and scripts from ancient civilisations - always with subtle, perhaps abstract interpretations which may not make their origins obvious." **Examples from the Interzum stand of Impress. Call 0049 6021 4060.**



Sasha Kostros, Impress





Left. Growth at Schattdecor over the last few years has progressed at blistering pace. Now with 22 companies to keep track of throughout the world, each with its own specific area of expertise, knowing where to access what is vital. Bernd Reuß demonstrates the new touchscreen interactive company presentation on the Schattdecor stand at Interzum 2013.

Right. One of three main trend areas on the Schattdecor stand, the Progress trend makes a fascinating impact with bright colours and modular material combinations. It is characterised by light Nordic woods in natural colours and matt surface textures. Tokaj, a fine-grained décor offering elongated flame figures and partial rays, and the more rustic Beaufort Oak typify this trend.



into the future

If success is achieved by standing out then décor specialist Schattdecor certainly achieved success at Interzum 2013.



PET and a glimmer-based iridescent pigment are combined in the new Smartfoil, "Motion".

On a burgeoning stand, Schattdecor unveiled its latest décors and technologies for the furniture and flooring sectors to the applause of a worldwide audience. The major trend for the 2013/14 furniture season is décors with natural authenticity. Another very up-to-date theme remains the perfect combination of tactile and optical elements through synchronous structures and décor-enhancing surface effects on melamine and film surfaces. The new interiors reveal greater influence of creativity, emotion and personality with a stronger focus on individual and modular ways of shaping living spaces with touches of strong colour used to underscore individuality. There were three main trend areas entitled Progress, Poetry and Comfort. New décors in the Progress trend include the very natural Beaufort Oak, a new generation soft rustic, and Tokaj, a fine-grained timber with elongated flame figures and partial rays. Poetry, on the other hand, is defined as casual chic: contrasts of light and heavy in combination with white-stained items and pastel hues provide a dream-like appearance, characterised by Bonifacio Oak and Sibiu Larch, while Comfort, described as a more masculine trend, includes the powerful 3D Sheffield Oak, with striking negative pores in the growth lines and narrow figures, and Loft, a fair-faced concrete with structure. Comfort encompasses such striking new colours as indigo, teal, cinnamon, graphite and subtle concrete grey - all of which can be found in the new 2nd Unique Colours by Schattdecor collection.

Schattdecor also used Interzum to unveil its new Smartfoil CP+ collection. Crystal-clear printed décors (CP) offer a more natural appeal; the "+" stands for more naturalness. The design team chose to showcase five contrast-rich woodgrain décors - and a remarkable new "Motion" Smartfoil, created with PET and iridescent pigment which gave the appearance of changing colour in different lighting conditions. Stunning!

Working in co-operation with Palis, Schattdecor has made great strides with digital printing and the technology to produce digital décors at 140m/min is expected by 2015. Samples on the stand were indiscernible from conventionally printed décors.

For more details of the full Schattdecor offer, visit www.schattdecor.de or call 0049 8031 275 0/2779.



Scandinavian country house style, simplicity and longevity are the fundamental criteria in the second trend, "Poetry coupled with modernity". The furniture never makes an austere impression, but captivates with an air of casual chic. At the same time, it also creates contrasts of light and heavy. A modern effect is created by combinations of white-stained items with various pastel hues for a dream-like touch.

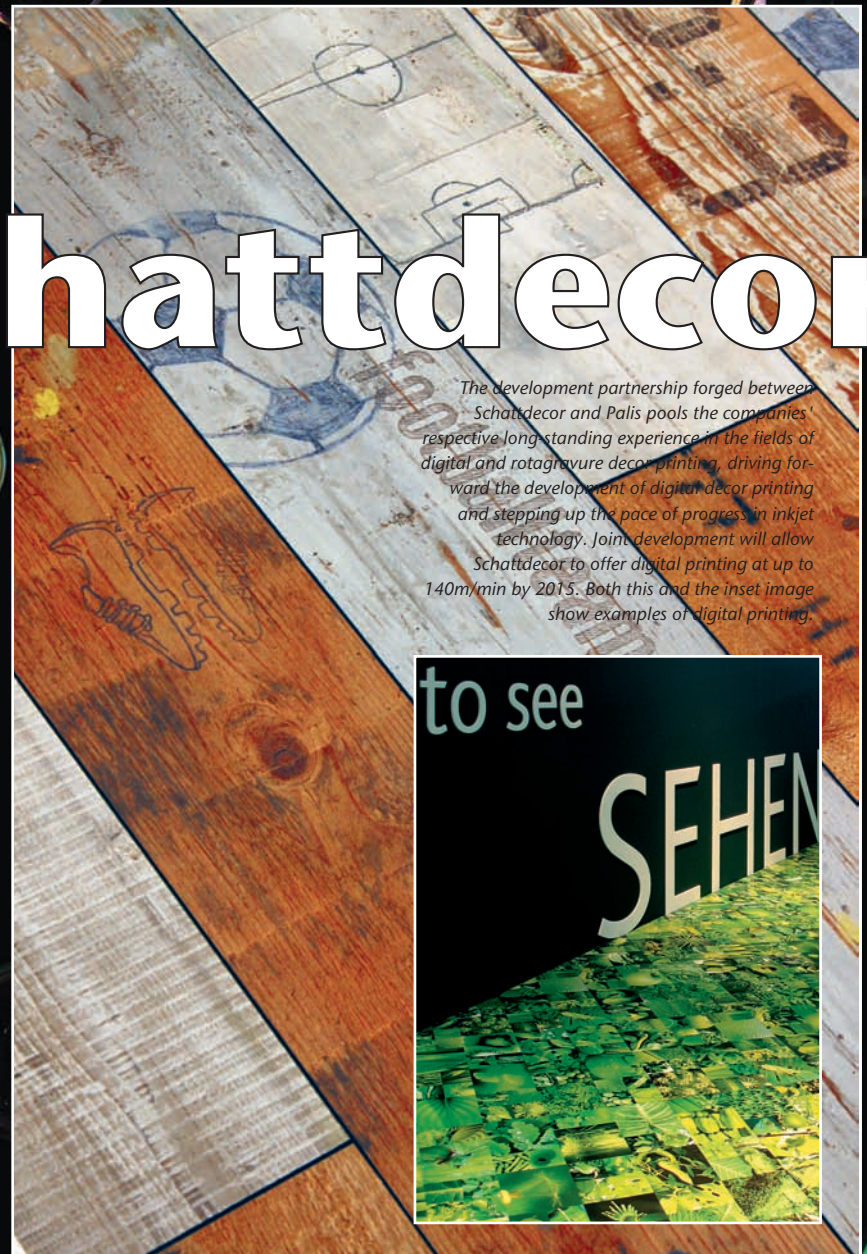


Masculine colours, as well as solid-looking furniture accentuated with metals such as copper, brass and steel typify the third trend, Longing for Comfort. "Loft" shows fair-faced concrete in a somewhat structured layout while Sheffield Oak, with its 3D appearance, adds power.

with schattdecor



Uta Kammerer, one of Schattdecor's designers, enthused over Monastery Oak, one of the new generation of rustic décors making its debut on the stand.



The development partnership forged between Schattdecor and Palis pools the companies' respective long-standing experience in the fields of digital and rotogravure decor printing, driving forward the development of digital decor printing and stepping up the pace of progress in inkjet technology. Joint development will allow Schattdecor to offer digital printing at up to 140m/min by 2015. Both this and the inset image show examples of digital printing.

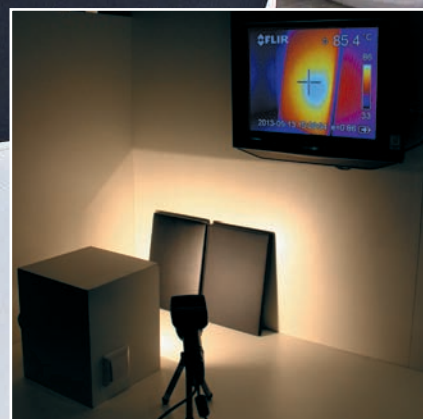
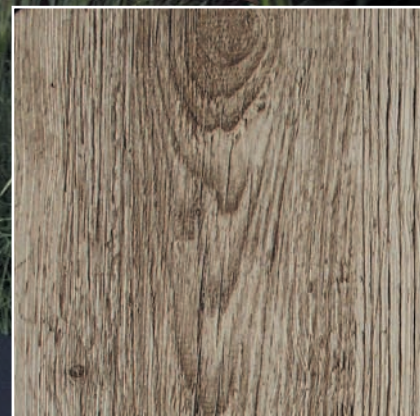




A new décor for Interzum, Pino Aurelio has the old, weathered, outdoor look - and the Quadro emboss makes it feel just like it looks.

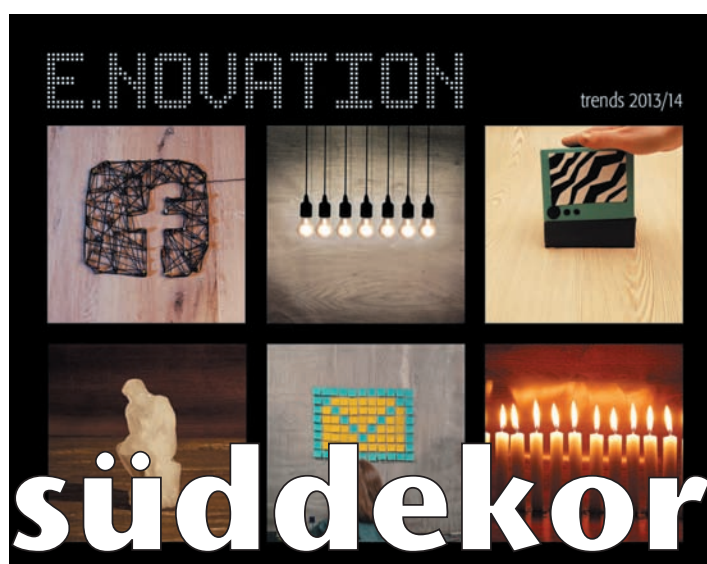
hornschuch goes outdoors

There's always a surprise on the Hornschuch stand - and this year's treat was a remarkable heat-reducing fabric, perfect for cabriolets and outdoor situations.



Function and design combine in the new skai® cool colours Venezia which made its debut on the Hornschuch stand at Interzum. The Interzum Award winner, which is available in 13 cool colours, has a remarkable feature which makes it perfect for use in outdoor situations, especially where the sun shines, or in cabriolet cruising: it reduces surface temperature significantly, making it possible to sit comfortably even in hot climes. And to demonstrate the ability of skai® cool colours Venezia to remit heat rays, a heat lamp beamed mercilessly on the surface of both the innovative Venezia and a normal synthetic fabric with the temperature shown graphically on a display. Call 0049 7947 81 484, www.hornschuch.com





What's on top is decisive was Süddekor's motto at Interzum. Together with Dakor and Süddekor Art, Süddekor presented the new E.MOTION and E.NOVIATION trend worlds along with technical innovations D.Fin® Thermoform, D.Fin® Polytop and D.Film® Gentlefloor. The entire Interzum stand was finished with D.Fin® Supermatt, a product first given an award at Interzum 2011.

D.Fin® Thermoform is a thermoplastic polypropylene film, which is decorated using water-based inks. Free of hazardous plasticisers, it offers optimum 3D malleability. Major exhibits will be showcased at Interzum, including widths of up to 2700mm which had been lacquered using water-based or electron beam-hardening processes. D.Fin® Thermoform enables Süddekor to offer a metamerism-free décor package; the same colour system is used for melamine products, finish films and PP films.

D.Fin® Polytop is a polymer-based overlay for finishing décor paper-based decorative wood materials. Compared to conventional melamine-based wood products, D.Fin® Polytop is warmer to the touch and protects against moisture and abrasion.

The E.MOTION trend is all about emotions, uniqueness and tranquillity in modern living environments. Gentle sorbet shades reminiscent of the 1950s bring colour to this natural environment. E.MOTION includes trend décors in wood, concrete; natural, processed and blanched structures and sand-blasted looks. In contrast, E.NOVIATION is all about technology-dominated living environments in which the natural is virtually indistinguishable from the artificial. Colours are reminiscent of minerals.

Details: 0049 7333 9550, www.sueddekor.com

Nordic cool paired with rustic warmth are the characteristics of Barents Oak.

Corrugated metal used as a roof for a beach hut in Florida was the inspiration behind Crusoe.

With its knots and intensive pores, Edison Oak caters for the trend towards rustic elegance.

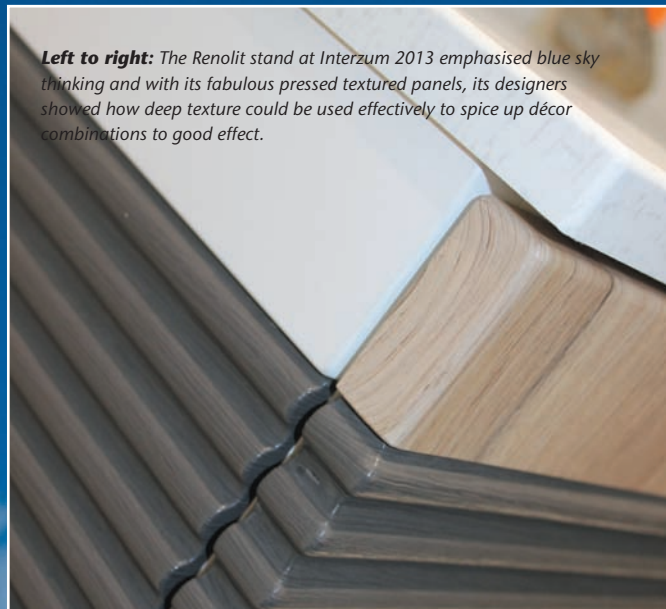
shines



Old, dark and characterful. That's Morgan Maple.

Below: Supermatt covered the Süddekor Interzum 2013 stand.





Left to right: The Renolit stand at Interzum 2013 emphasised blue sky thinking and with its fabulous pressed textured panels, its designers showed how deep texture could be used effectively to spice up décor combinations to good effect.



the sky is th

Blue sky thinking took décor specialist Renolit into new areas at Interzum 2013. 29 new décors, including several superb oaks, were added to its stock range while exotic, pre-pressed easy-fix textured panels provided manufacturers with a simple way to use texture just where it's needed.

The trend for rustic romanticism is stamping its mark on the décor landscape: oak designs took centre stage on the Renolit stand, alongside highly structured surfaces evocative of split wood and matt surfaces which give a natural feel. With 29 new stock range additions and a variety of innovative make-to-order designs Renolit has based both its 3D and its 2D stock range new additions on these trends.

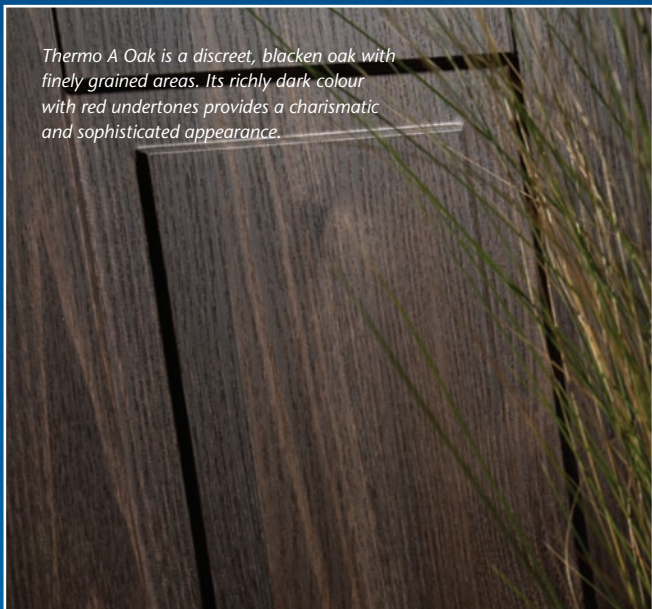
Highlights at Interzum included the natural looking Magellan oak décor and 3D Veralinga emboss. Veralinga is a deep, dynamic wood structure with a smoothly matt finish. It makes the perfect partner to the Magellan oak décor with its rustic image. It also works well with the fine lines of Elmo, a new linear interpretation of Elm. The made-to-order décor Inedito Oak in combination with Melinga emboss provides rich knotting and gnarling, uneven joints, overlaps and cast shadows while the streaked wood structuring of Canyon Monument Oak (MTO) is both lively and rustic. The S-Coat surface gives a matt feel. In contrast, Thermo A Oak is considerably more discreet: a blacken oak with finely grained areas, rich and dark. Thermo B offers a slightly browner effect tinged with a lighter golden hue. Sun-bleached Brabant Oak with its velvety sanded surface concludes the new oak décors.

With Okasha emboss you feel what you see with a unique combination of oak and ash while the new décor Roca, with its appearance of rusty metal, unites reds, browns and burgundy red in an intense décor.

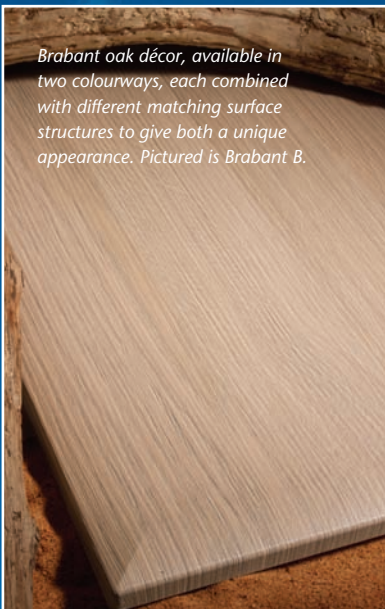
Magellan Vintage P has a warm grey shade with light touches of beige to make it look like it has been bleached by the sun. A discreet shimmer of silver lends a hint of exclusivity.



Thermo A Oak is a discreet, blacken oak with finely grained areas. Its richly dark colour with red undertones provides a charismatic and sophisticated appearance.



Brabant oak décor, available in two colourways, each combined with different matching surface structures to give both a unique appearance. Pictured is Brabant B.



On trend with retro revival, the new Roca Cream works well with neutral tones.



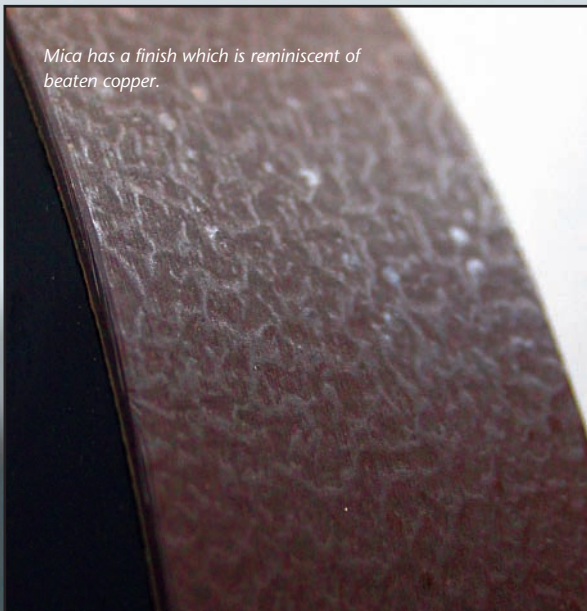
e limit

Elmo Veralinga White.



More information

01670 718222 or www.renolit.com/design



Mica has a finish which is reminiscent of beaten copper.

The theme on the Surteco Group stand summed up the ability of a décors group which offers matches throughout its range - paper and melamine to edgeband.



Natural Wood - one of three new textures in the Döllken range.



We dress furniture, the slogan read on the Surteco Group stand - and between them, Döllken, Bausch Decor, BauschLinnemann, Gislaved Folie and Kroning do seem to have décors wrapped up. On a joint stand, Group members provided décors to dress a larger-than-life mannequin.

From Döllken, the company's newly-launched Kanten News hinted at the latest edgebands: Supermatt to premium gloss, combined 3D edgings, two-in-one edgings with high gloss and matt effects - and three stunning new embossings. Natural Stone, Natural Wood and Mica Textured sit perfectly in the texture trend. Mica Textured has a novel planished finish which recalls antique beaten copper. There had also been technical developments in Döllken's laser line up: Fusion Edge now includes products for zero bond line using not only laser but also plasma and hot air systems. PP has also been added to the options available in Digital Edge and the KSP Instant Edge Stock Programme now includes matches to the latest décors from Pfleiderer, Egger and Formica, bringing all three to the doorstep of the smaller user who wants 100m rolls.

The big story from the Surteco Group décor paper and foils members was the availability of a fully co-ordinated range encompassing printed papers, finish foils and edgings, etc. Three new cylinders had been developed for Interzum 2013: Marone, Clermont Oak and Montalcino Elm. Marone, in particular, is available in three modern, in fashion colourways and with a variety of lacquer surfaces and structures that can be specified to order. These designs are available in 3D PVC thermoplastic foil as well.

Catering for the demand for different surfaces and structure, Surteco Group member Gislaved Folie's thermoplastic foil range had been expanded for the show with the new Supermatt and Satinato lacquered effects.

all dressed

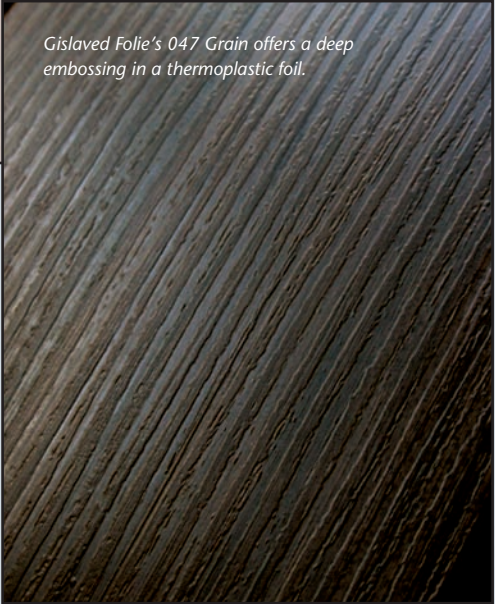
More information:
Surteco UK, 01282 686850.
Döllken UK, 01282 686878.
www.we-dress-furniture.com



"we dress furniture" was the slogan on the stand - and to illustrate its point, Surteco Group members contributed towards the dressing of a mannequin.



Montalcino Elm.



Gislaved Folie's 047 Grain offers a deep embossing in a thermoplastic foil.

ed up



Marone Woodstructure.



German manufacturer Heitz has introduced a new range of 3D textured, real-wood veneers. Available in four distinctive designs including Sandblast, Wormhole, Rough Cut and Wave, the range has been created to meet the growing demand for natural and palpable surfaces in the UK. It's now available through Coventry-based Ney Ltd. Call 024 7630 8100 or visit www.ney.co.uk

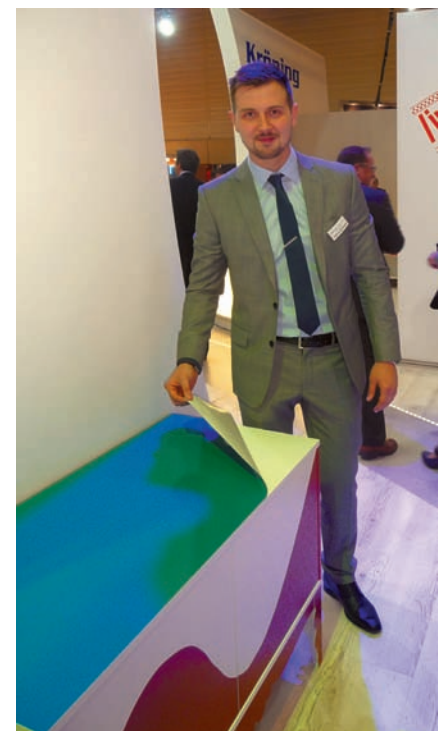
interzum
REVIEW

new from ney



Above: It was Ney Ltd that first brought the Polish sliding door specialist Laguna's supremely high quality engineering into the UK back in 2005 and made famous their sliding system in a box. Remember those bright blue and yellow boxes? They were a neat idea back then and they remain a classic today. With Ligna 2013, Ney's Laguna portfolio has grown with two new sliding systems, including an off-the-floor option for furniture which takes all the weight on the top rails, shown above. It's perfect for a variety of uses - anything from en suite bathrooms and lounge-diner dividers to compact kitchens in bedsits that need to be hidden when not in use. For more details and specifications call 024 7630 8100 or visit www.ney.co.uk

Below: Ney's principal, Samet, used Interzum 2013 to showcase the very latest in hinges, slides and up-lifters on a stand that bristled with innovation. Available to order through Ney after June, and pictured below with Graham Carse, the Impro Hinge from Samet has a five-stage damping system that allows furniture doors of different sizes and weights to be adjusted so they soft close uniformly. First seen at Sicam in prototype form last year, the cushioning mechanism of the Impro hinge is integrated into the hinge arm. It can be adjusted from 1-5 on the hinge arm with a simple screw that's hidden discreetly under the cap which allows for slow or fast movement and varying degrees of soft closing. Impro has been tested to well beyond the LGA's cycle requirements and, say Samet, it exceeded 200,000 cycles. Call 024 7630 8100 or visit www.ney.co.uk



Above: A unique concept designed for fitters who are involved in the kitchen, bedroom or bathroom refurbishment business, Bausch Linnemann's new Teco Smart self-adhesive foil is a quick and easy way to update and customise furniture. Also ideal for repair projects, the scratch-resistant foil leaves no residue if removed and doesn't lose its stick, allowing it to be reused at a later date. Call 024 7630 8100 or visit www.ney.co.uk

Interzum 2013 marked the introduction of several new products on the Rehau stand. The new additions to the Rauvisio product range, Rauvisio Crystal and Rauvisio Brilliant, are both polymeric surfaces which offer a new dimension in furniture surface design.

Rauvisio Crystal, Rehau's 'glass' laminate surface, provides a perfect solution for fronts utilising the machining advantages of polymers yet still creating the visual appearance of real glass. This product stands out primarily for its high quality appearance, ease of cleaning, impact resistance and light weight properties.

The Rauvisio Brilliant, on the other hand, is a high gloss laminate surface which offers with real depth. Currently available in ten colours, Rauvisio Brilliant offers a genuine substitute for expensive lacquered fronts.

Completing the Rauvisio offer was Raukantex Laser Edge. Using laser welding technology, a permanent bond is created between the edgeband and board without the use of adhesives and without creating a joint.

For more information please call 01989 762655 or visit www.rehau.com/GB_en/Design_for_Furniture/

*Launched at Interzum ,
Rehau's 'new' Rauvisio
Crystal and Rauvisio
Brilliant product lines offer
a new dimension in
furniture surface design.*



Left: Rauvisio Crystal - glass finish surface and jointless, seamless laser edge.

Below: Rauvisio Brilliant - available in 10 different colours.



a new dimension



Raukantex Laser Edge - polymer edgeband laser welding solution.



interzum
REVIEW



Above. According to Hornschuch, Eurovinyl's stand boss refused to stop displaying décors which the Polish court had ruled to be copies until the last possible moment.

Main. One is Sonoma Oak, the other is not. Which is which?

caught in the act



Lothar Machule compares Eurovinyl's décor with Hornschuch Sonoma Oak.

Copying the designs of successful companies does not pay, as the Polish company, Eurovinyl, found out at Interzum 2013.



Hornschuch, Schattdecor and Kaindl bosses accompany police and lawyers to the Eurovinyl stand.

Take a long, hard look at the décors above. One is the genuine article. The other is an illegal copy. Copying and reselling without permission (no matter whether it's a décor design, a photograph, a machine part or a magazine article) comes with severe consequences, as the Polish company, Eurovinyl Sp.zo.o., based in Ożarów Mazowiecki just to the west of Warsaw, found out the hard way when a police swoop on May 14th followed by legal action resulted in removal of several décors from its stand at Interzum 2013.

The main picture, above, is the successful design skai® Sonoma Oak, developed jointly between décor specialists Hornschuch and Schattdecor. Inset, above right, is the décor Eurovinyl was brazenly offering from its stand not 30 metres from the copyright owners.

According to Hornschuch, when advised of the infringement, stand officials at Eurovinyl refused to refrain from displaying the décors, catalogue numbers HFL 1916-55, HFL 1916-59, HFL 1916-6 and HFL 1916-8. Legal action,

initiated on behalf of Hornschuch, followed swiftly and by 16th May a Polish court had ruled in favour of Hornschuch.

It was 11.30am on 16th May when Hornschuch's Lothar Machule (Executive Vice President Marketing & Sales) and Elmar Zschau (Head of Business Unit Marketing Services) accompanied by Schattdecor executives, informed the Eurovinyl stand boss about the court decision and handed the verdict to him. Hornschuch confirmed it was not until 3pm that he finally removed the affected décors from his stand.

The following day, the court sent a bailiff to the company's warehouse in Poland with an order to seize all unsold products, which were presumed to have been manufactured in the Far East.

But you only bought the design from Eurovinyl and used it on your furniture, so you're in the clear, right?

Wrong!

By circulating infringing material, it is quite possible you could find yourself facing a claim for secondary copyright. So let's stamp out copying. It's just not worth the grief!



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that make you
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ClicBox offers a complete range of 42 skus (base, wall and larder cabinets) in 3 different colours: white, ivory & lissa oak.

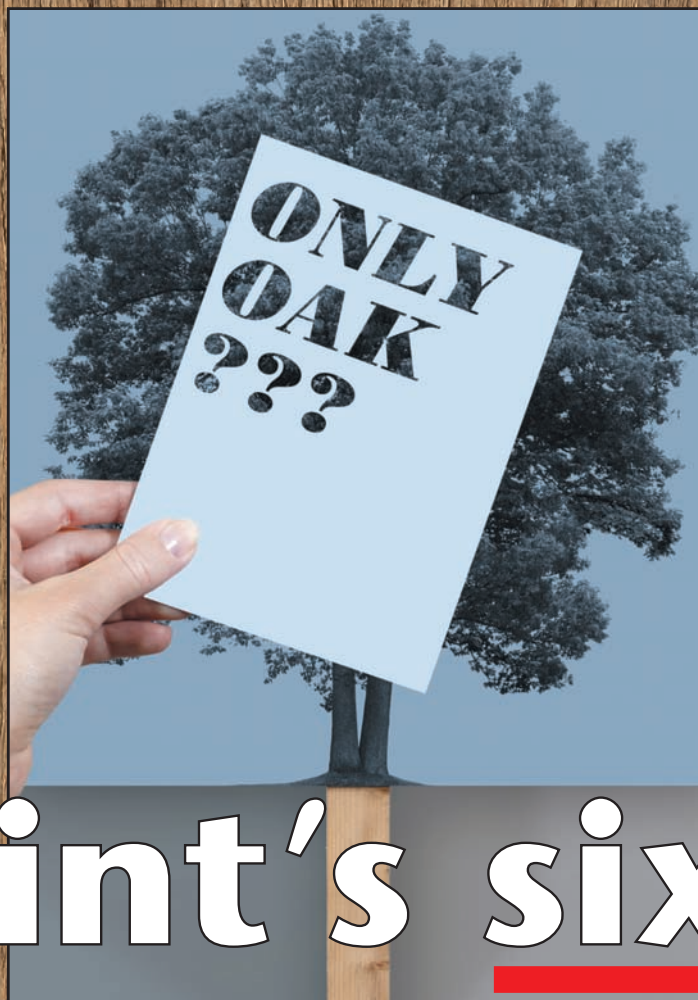


Watch the installation movie, **order your free sample** and find the Clicbox dealer list on www.clicbox.eu





In a uniquely themed presentation in the Design Post Köln, Interprint showed six new décor collections. This is Santhia.



interprint's six

Six superb décor highlights, each with its own story to tell, awaited visitors at Interprint's presentation in the Design Post.

For those who made it to the refreshing calm of the Design Post just across the dual carriageway from the halls of Interzum, a new interpretation of the "six pack" awaited at Interprint. Forget big muscles, though. Interprint's Six Pack is a collection of six favourite décors that correspond to the spirit of the time, each representing an independent trend topic which tells its very own story.

Santhia, *The Versatile*, "I also want it" is a wood décor with wide appeal which inspires a rethinking beyond the classic oak. Santhia unites its Asian origin with typical features and strong-character properties of various wood types. The result is a slightly structured and elegant pore picture with soft swirls for a harmonious overall look.

Katthult, *The New Swede*, "Is that here Bullerbü?" A characteristic Scandinavian design that looks very unobtrusive and yet idyllic. The Nordic conifer wood décor reminds you of a better world. Stripe elements, half-cut flowers, a slightly wavy, flowing structure and a great 3D effect characterise this décor. It fits perfectly with the current trend towards Scandinavian design.

Redgate, *The Up-Market*, "Unobtrusive but also with a strong character". Redgate is described as absolutely 'timeless' and fascinating. The grain of the East-Asian hari-gari comes to the fore in combination with harmonious or accentuating single-colours.

Bob's Pine.



Katthult.



Redgate.



Battle Rock.



pack

Although similar to the European ash, it has a more discreet structure in comparison with a subdued colouring, soft planking, an open and structured pore, cut flowers and stripe elements. Redgate ranks among the top in terms of design quality.

Battle Rock, *The Seductive*, "Unbelievably natural, striking and attractive." A décor that you want to touch, this new, authentic-looking, tactile three-dimensional oak décor is bang on trend for the used look. Knots remain in the background, the pore picture is clearly structured, the colouring is very harmonious and the charm is South-European.

Arizona Oak, *The Lively*, "Vivacious and sentimental". Arizona's heat and wind inspired the cracks in this interesting décor. Knots play a subordinate role, clear pores come to the fore and slight planking keeps the country-house look in harmony. Arizona Oak is a real natural beauty that reminds you of the good old times - 'Nostalgia'.

Bob's Pine, *Pure Handicraft*, "Treated and popular." The conifer wood of this décor is a beautiful pine that gives the impression of real handicraft and serves the current Do-it-Yourself trend. The story of Bob's Pine is vivid: it ranges from scratching tools, rubbing objects, wind and weather to many strong blows. Bob the Builder set to work and reworked the vintage wood by sanding, polishing and structuring it.

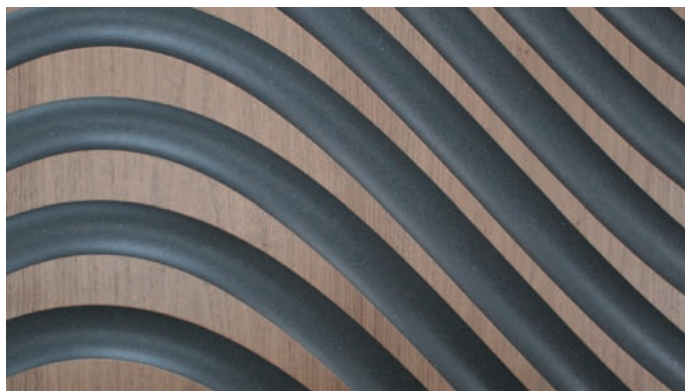
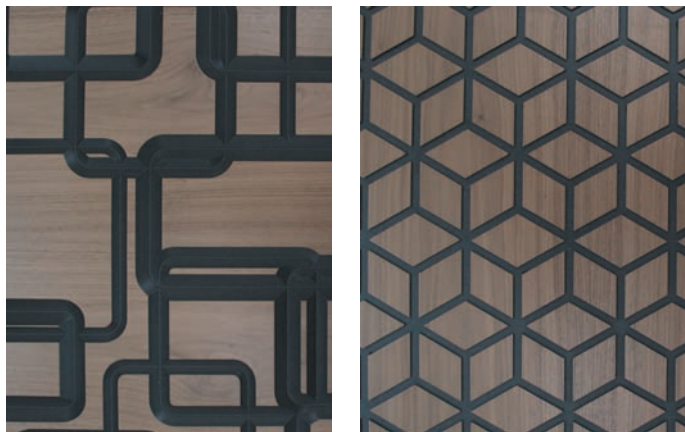
For more details contact Interprint on 0049 2932 9500 or visit www.interprint.com

Arizona.



*For the ultimate in
sculptured designer
panels, take a look at
Muraspec's
Impressions®.*

designer panels



For a practical and cost effective way to add real impact and atmosphere to interior spaces, look no further than Impressions® Sculptured MDF Panels from Muraspec. This Summer the Impressions® range has seen the introduction of a selection of artisan finishes including two-tone, chrome look and real wood veneer.

Impressions® panels are made by sculpting three-dimensional designs onto a core panel of 1.2m x 2.4m MDF, finished with a pressure formed laminate surface layer to give added visual impact and durability. The standard range consists of 31 designs including wave effects, geometrics and florals - all available in over 50 different gloss, metallic and leather laminate finishes. Added extras include the choice of raw or paintable finishes for customising, enhanced fire rated MDF and zero added formaldehyde options. Each panel is made to order, with a typical 3-week lead time. Prices start from under £55m².

Mike Cheese, Muraspec's Impressions specialist, is delighted with the reaction the new designs have had so far: "It's always great to see customers go 'wow' when you show them a new design," he says. "We're constantly working on new designs, finishes and effects to see how we can grow the range. There's so much we want to do - these additional finishes are just the start!"

Panels can be fixed with Muraspec's fixing kits, screwed or glued, and can be cut prior to installation. Ranging from 18-25mm in thickness, they are made from FSC certified MDF which contains 80% post industrial waste, and are fire rated for use in contract environments.

For more information and product samples contact Muraspec at customerservices@muraspec.com or call on 08705 117118.



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Main: AluCompact has striking aluminium bands in the core for true designer edges.

Left: Max Compact Interior with white core offers a whole new aesthetic level to furniture design.

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The 200 décors in the Max Compact Interior panels are manufactured using multiple layers of resin impregnated kraft papers. The panels have a distinct black core and are extremely strong and suitable for furniture applications requiring strength, damage resistance, hygiene and low maintenance. Resistance to scratching, impact, chemicals, water, humidity and heat makes them particularly suitable for both demanding and decorative applications.

Max Compact Interior with White Core panels offers a whole new aesthetic level to furniture design. Created to be more contemporary in style with design purity, they remain highly practical for healthcare, hotel, leisure and educational applications. Available in a range of over 150 décors the panel core remains an exquisite white which can be

machined whilst still maintaining its solid white edge detail.

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who
create



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Main: Vibrant Valchromat.

Above: HIF Finesse.

latham's trio

Three new surfacing options from James Latham are now available from all nine of the company's distribution sites.

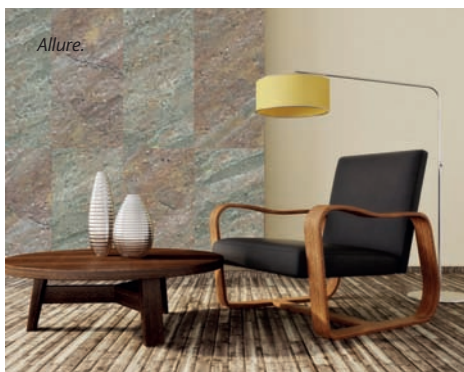
It may not be the kind of job you get commissioned to do every day but the picture above certainly shows the versatility of Valchromat engineered fibreboard - one of a string of new surface solutions available through James Latham's nine nationwide panel distribution sites. By adding organic dyes and a specially formulated resin before pressing the panel, the eight vibrant colours available in Valchromat run right through the board.

Another new product that's exclusive to James Latham in the UK is Allure. An exciting and contemporary range which, as well as six different types of truly unique real stone laminate, includes an extensive palette of high-gloss bold and vibrant acrylic colours as well as a high-gloss wood grain). Made from natural stone, Allure Stone Form is flexible and can bend up to a 6" radius making it a versatile option to enhance any design project. It can be applied to many different surfaces, and being lightweight, it's the perfect solution where a real stone finish is required, but the

use of heavy, solid stone is impractical and cost prohibitive. The Allure range also includes a stylish mirror laminate, a choice of rough-cut and brushed oak, smoked and stained veneers and a selection of eco-friendly re-constituted veneers in patterns such as Rosewood and Ebony.

Delivering dimension, depth and texture to an otherwise flat surface, a third new product from James Latham, HIF (Holz in Form) Finesse, offers a mixture of contemporary designs and patterns. Inspired by the flowing, dynamic shapes of the natural elements, HIF-Finesse offers eleven embossed MDF panels which are supplied with their own unique textured finish and are held in stock in the UK. HIF-Finesse is also available in curved panels, with a matching range of edging and in profiles and thicknesses from 1050x2450x18/21mm, 635x2450x21mm, 1270x3135x21mm, depending on the pattern.

For further details contact James Latham on 0116 257 3415 or visit www.lathamtimber.co.uk



new technology



Showing the company's latest technology, Mawera unveiled a 550kW FSB Boiler Plant on the stand at Ligna 2013. The Mawera 550kW FSB included O₂, Flame temperature, re-circulation of flue gases and complete moving grate with fully automatic de-ashing. From the stand, John Clissett confirmed that full, detailed TUV testing of this plant had been

carried out to prove its exceptionally low emissions to atmosphere.

John also went on to comment, "The UK furniture manufacturing sector is of considerable importance to the UK economy. It contributes in excess of £6.3 billion to the national Gross Domestic Product, and now the authorities are requiring a large decrease in emissions to atmosphere both for the LAPPC Permits - Part B process and the Renewable Heat Incentive - Mawera has the equipment and technical knowledge to meet these regulations. It has completed tests with the TUV to introduce effective control of any emissions from the burning of wood.

Among the latest technology to ensure compliance with particulate emissions, Mawera offers electrostatic filters. "This equipment may apply for existing plants and is under review with Defra and awaiting the furniture industries reply to the actual impact of this legislation," commented John.

Mawera: 01543 258844.



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Access tight? The Woodflakes fleet is well-equipped to deal with small and large manufacturers' problems.

drowning in dust?

There are many reasons for taking a note of Woodflakes' number. Put succinctly, Daventry-based Woodflakes Ltd has 30 years' experience of getting rid of dust problems - large or small. If you have a small mountain growing somewhere on site, Woodflakes can dispose of it for you. If you're paying for skips, if your local Planning department won't allow you an appropriate extraction unit, or if you simply need to calculate the volume of waste your company is producing, a Woodflakes mobile suction service could be the answer. Attendances are made as and when required with no penalties incurred for smaller volumes or infrequent visits. Collections can be made to remove quantities from 500kg up to 10 tonnes, with a weight ticket and waste transfer note issued before the vehicle leaves.

"Smaller businesses are traditionally not that well served when it comes to the handling of woodshavings and

sawdust, with limitations as to what is usually on offer," comments Simon from Woodflakes. "Woodflakes can assist in these circumstances, and can provide a simple and cost effective option. This is particularly useful for companies that either have a bagging unit installed, or an extraction system that drops waste into a chipstore, or blows material into a skip or trailer."

Woodflakes's service is also useful for larger companies that burn their waste but may need occasional attendances due to servicing or breakdown of their boilers. Woodflakes is well equipped to gain access to tight areas and guarantees to provide cover in a timely fashion to ensure works are completed and businesses are returned to production without delay. It can also provide standing filtered skips and trailers, as required.

To solve your dust problem, email info@woodflakesofdaventry.com or call Simon on 01327 343344.

Is your present dust collection service up to speed? Do you need extra help between collections? Here's a company that could help.





Above. The heart of Reichenbacher's brand new CNC machining centre, Vision-RC, is its ultra stable, rigid working head. Designed for high precision and fast component processing, it's not a machine that you'll outgrow: Reichenbacher say it's designed to be expanded and optimised retrospectively, so as your needs change, so can the Vision-RC. Key features, aside from ease of operation, include a Cardanic 5-axis working head with 15kW or 24kW (0-24,000rpm) power; a multi-spindle drilling head with 19 spindles rotating around the C axis; a choice of 24 place tool-changer or 96-place tower magazine and tool shuttle; adaptable table partitioning with various vacuum clamping stations; and Siemens Sinumerik 840D sl control. A separate service module with graphical user interface facilitates easy fault diagnosis and the whole machine has been constructed with longevity in mind. Details: 01924 950600, www.reichenbacher.co.uk

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REVIEW

ligna

Maybe it was the timing of Ligna 2013, maybe it was that manufacturers are again looking to invest, but this year's show seems to have been far busier for exhibitors than the last couple of editions - and machinery manufacturers certainly went to town on the event.

The focus across the industry was on more efficiency, more productivity and, above all, more flexibility. Witness Homag City, which bristled with innovation. From just one user interface on the largest stand at this year's event, Homag's PowerTouch thrilled visitors with its ability to control all Homag Group machines easily from a wide picture multitouch monitor. The use of ever more realistic virtual machines reduces risk and provides an aid not only to training but also to testing and plant development. Homag pointed the way to the future with its incredible RealityPlus "virtual machine".

Bespoke manufacturing and just-in-time production have leapt forward with batch size one manufacturing emerging as the cutting edge of technology. Homag,

IMA, Schelling and others showed their combined prowess at batch size one production with impressive (and eerily operator-free) demonstrations encompassing every facet of panel processing, concluding with robot-controlled stacking and retrieval.

For the small to mid-size manufacturer, flexibility is just as important. As a means of providing this, five-axis CNC machining centres featured much more strongly at this year's Ligna with several new contenders now on the market. No longer seen as a solution exclusively for 3D modelling of solid timber, five-axis machines are being presented as less expensive, more economical alternatives for a broad variety of applications.

Since laser edgebanding emerged a couple of years back, as with all technological developments, prices have tumbled, making laser technology more widely affordable. But now, for the smaller manufacturer who wants the perfect glue-free edge, the focus has shifted away from use of an expensive laser unit. In its place, manufacturers like Cehisa, Fraval and others have introduced

Right. A new touch screen enables the operator of Fladder's second generation profile sander to define the profile and choose which module does what.



Above, above left and left. Take a look at Fladder's second generation profile sander. Gone is the box shape in favour of a circular design which gives more freedom to position the motors. There are two motors in one section, sanding at 45° and saving space and enabling four sides to be sanded in one pass. A new touch screen enables the operator to define the profile and choose which module does what. Every motor operates independently enabling speeds to be reduced for sanding of sensitive parts while other parts are being sanded at full speed. The new profile sander currently sands workpieces with a minimum length of 1000mm but, according to Jens Nielsen, speaking on the stand, "It could be made to sand workpieces with a minimum length of 600mm." He added, "We have been looking at adding a barcode scanner which will enable 100 profiles to be selected automatically." Details: 0045 7529 7133.



2013

hot air systems which are claimed to be every bit as effective with laser edgebanding materials. And they're less than half the price.

The Holy Grail of the ultimate edge joint is, of course, only achievable if the quality of the edge is exceptionally (and consistently) high. Tooling manufacturers showed they were up there - dare I say *at the cutting edge?* - with some remarkable technologies this year: Leuco's multi-knife P-System isn't new but it's ability to slice cleanly through the thinnest of veneers remains a show-stopper. And ensuring consistency, the Leuco iBlade reader will keep you in touch with blade life and performance. Marathon coated Profil-Cut knives from Leitz are claimed to increase machine productivity and give finish cut quality until the end of their lives. You'll find more on page 56.

So was Ligna 2013 a success? Oh yes!

More than 90,000 professionals from 100 nations attended. There was a 52% upsurge in attendance from the USA. Will Ligna 2015 beat it? You can find out between 11th and 15th May 2015.



Above and right. Martin's T45 thickness planer (above right) was presented for the first time at Ligna with the Shelix cutterblock (right). This cutterblock combines the advantage of a shear cut with spiral tooth action. The smooth running and versatility of this system quickly won over numerous supporters. At the show, Martin also offered this cutterblock as an option on its T54 surface planer. On this machine its outstanding strength and the impressive running smoothness of the Shelix can be demonstrated even more clearly. A reduction of more than 6dB(A) was achieved, representing a quarter of the perceived noise emission. It's a major contribution towards a pleasant working environment. Now sporting integrated electronically adjustable feed rate, the familiar T27 (right), combines electronic adjustability with mechanical transmission, ensuring a wide speed range can be covered with a consistently high torque. The sensor supported speed control guarantees perfect interaction. The operator can now be sure that each individual machining process is performed at the appropriate feed rate. Call 0049 8332 9110, www.martin.info.





Above and left. Kündig showed fine form at Ligna 2013 on a stand that bristled with visitors, all eager to see the latest machines. Visitors showed particular interest in the Brilliant wide-belt sanders (at least one of which was sold off the stand) and in the demonstration using a purposely damaged sanding belt to show exaggerated oscillation marks when straight line sanding. By placing the same sanding head to give a shear cut, these marks simply disappear.

It was the Technic Precision that had been "under wraps" before the show. Kündig UK's Carl O'Meara comments, "There is no machine like it for the way it is

constructed, the way it works and the accuracy it gives." The Technic Precision was demonstrated sanding raw veneer to a calibrated thickness of 0.4mm. The sander offers an accuracy of $\pm 0.02\text{mm}$ and can be utilised on various materials either fed sheet by sheet or from a roll. In addition to the Technic Flash for the edge-sanding market, the Technic is offered in three wide-belt configurations: the Technic Precision, the Technic Botopt and the Technic CNC. Options include top and bottom sanding systems, extra large machines, cutterheads, machines designed to work with very thin material such as laminates and more. More information: 0845 833 0565.

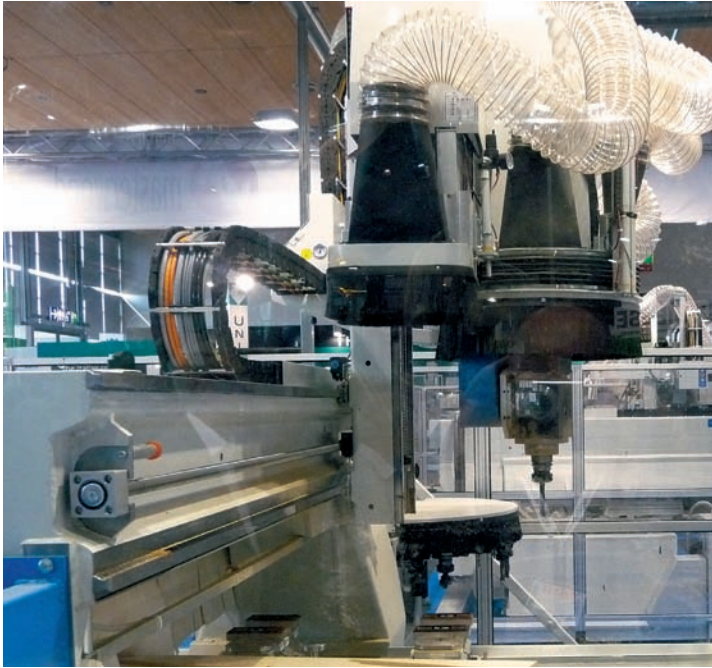
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Above and right. On a stand that was crammed with visitors adjacent to IMA's Batch Size One, panel sizing specialist Schelling showcased its Lot Size One, a flexible cutting plant for production of one panel up. And eerily operator-free it was too! Flexibility was the keyword, with maximum utilisation of material demonstrated by Schelling's fully automatic, unmanned operation. The capabilities of this plant ranged from automatic manufacturing flow and automatic "rests" removal - or refeed into storage - to commissioning of homogeneous stacks in the automatic board storage. Parts were aligned automatically before each longitudinal cut and cross cut, utilising the saw to the fullest extent. Features included controlled and guided splinter and dust disposal as well as central and defined waste disposal. Controlling the entire plant was Schelling's own control software - and, rather cleverly, the software follows and keeps track of all components passing through the Lot Size One configuration without labelling. It also ensures optimal utilisation of all interlinked plants using Schelling control logic as well as optimising cutting patterns and providing flexible handling of rests and filling parts. Congratulations, Schelling, on a brilliant display! For more information call Schelling UK on 01937 586340 or visit www.schelling.co.uk



Left, right and below. Prompted by the worldwide recession, Masterwood has gone flat out to develop a whole new range of machines to satisfy the needs of today's manufacturers. On show at Ligna were the Project 250 and the 5-axis Project 455.

The Project 250 (below and below right) is Masterwood's new three or four-axis entry level machine - and it's packed with many of the features from its big brothers. Designed with the small workshop in mind, standard equipment includes an 8kW router, ten position tool-changer and 19 spindle drilling head. The vacuum bed is a tubeless pod system. It's priced very attractively.

The Project 450 is a 3 or 4-axis machine, with an option for a direct drive horizontal router. The Project 455 (left and top right) is fundamentally the same, but 5-axis. Both the 450 and 455 have options for extra tooling positions, thickness sensor, waste conveyor, and automatic bed positioning. These options can be added at the time of ordering, or added at a later date for much the same price so you have only to buy what you need.

More information: 01293 402700.



Left. Boere used Ligna to give pride of place to its recently launched Select X-Line brush texturing machine. If it's structure, character, depth and rustic appeal you want, this machine delivers all, its oscillating brush system following the wood grain to create a stripeless, soft-feeling finish. How does it do it? The first unit of the X-Line sands across the grain giving the wood a sawcut, or scarfed look - and voilà! Instant extra dimension!

For further information on the Select X-Line call 01706 873344 or visit www.boere.nl

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Above and left. Titus Group used Ligna to highlight its technology for factory insertion of cams and dowels. Making its debut was the Titus FastFit, a solution that's claimed to reduce home assembly times for carcasses by as much as 50%. With the Lama FastFit machine, Titus cam and Quickfit TL dowels can now be inserted automatically in the sides of panels - and that brings with it not only a time benefit for the consumer but also a need for fewer parts and less risk of parts going missing. The technology works with standard furniture boards and the machine, which is of modular construction, can be integrated into existing panel processing lines, or used on a stand-alone basis. For more information call 01977 682582.



Below. Heesemann's new flagship is the LSM10 that uses a 3D-LaserScan system to trace height variations in workpieces. Another first: the entire oscillation system is controlled by one servo motor, optimising belt movement when lacquer sanding and cutting down manual interference.

More information: www.heesemann.com



1. Performance.cut provides panel sizing of 800-1500 panels per shift. Although it has a small footprint, Performance.cut takes raw panels of 2800x2200mm and comes with IMA cutting optimisation for maximum efficiency. Equipped with an eight position toolchanger, a main spindle of 10kW, integrated extraction from above and below and outfeed conveyor and table with brushes, Performance.cut is capable of processing minimum finished panel sizes of 100x205mm.

2. Cut panels arrive barcoded ready for scanning.



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From a vast stand encompassing its own brand new technologies alongside those of Schelling and Priess & Horstmann, IMA launches at Ligna 2013 even outnumbered those seen at Ligna 2011, illustrating IMA's faith in a bright future for the sector.

Alongside the Bima Gx30 R-type machining centre, the first example of which was shown at Xylexpo last year, was the Bima Gx50 E-type with laser edging and additional units for pro-cessing high gloss, right down to the radiused area of the edging tape. The idea behind the Gx50 was seamless components and this machine delivers on cue.

For high volume drilling, the all new iMagic TA is a real panel eater with servo-controlled drill axes for maximum quality at the greatest possible feed rate. The simple-to-use control system makes this a capacious production machine with a fast set-up time.

Following the demands of manufacturers for ever more flexible production solutions, IMA launched its complete Batch-Size-One manufacturing system. From the small footprint Performance.cut panel sizing machine, through edge processing and drilling (with associated sorting and conveyancing) to assembly, the demonstration proved that producing profitably to order is a feasible alternative for manufacturers who don't want to hold vast stock. Impressive as always, IMA seems to have the solution whatever the question.

IMA Klessmann UK: 0116 243 2181.



Making their debuts at Ligna were IMA's new GX30, GX50 and iMagic - but the real focus of attention on the IMA stand was the amazing Batch Size One automatic processing line.

ima: batch



8. Components for base, wall and tall cabinets are fed automatically into the KP-4-CNC carcass press and, depending on construction, are pressed in horizontal or vertical position.

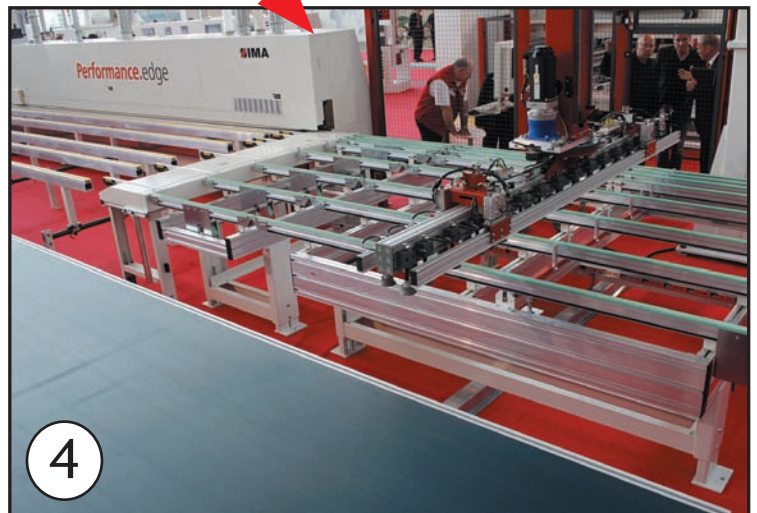




3. The Novimat Performance.one at Ligna was equipped with a rolling chain and a servo-infeed and stop system, top pressure with a shift lever spacing of 45mm and a scoring saw top and bottom. The edgebanding unit was equipped with a 24 reel magazine and automatic hold down device. Heating was infra-red. Also included were a PUR pre-melter, a plasma activating unit, an end trimming unit, upper pre-milling, an anti-stick solvent system, multiple profile milling, multiple profile scraping (with Duo knives and oscillating buffing units for high gloss), flat scraping, a buffing unit with two motors and grooving units with horizontal and vertical adjustment.

4. The single panel return and stacking system (KKL 120) offers both batch size one operation with manual feeding of panels, automatic panel return and automatic stacking after last pass, or a series production mode with manual feeding and automatic stacking after each pass. Functions include layer optimised single panel return for additional passes; oriented throughfeed; or automatic stacking after each, or last pass. Works with panel dimensions up to 3000x1300x60mm and as small as 250x110x10mm.

5. Next in the Batch Size One operation, the Performance.one drill from Priess & Horstmann (model BAT-DTW-CNC) facilitates vertical and horizontal drilling, gluing and dowelling into the edges of the panels. As an option, drilling, milling and routing can be accommodated on up to six sides of a panel.

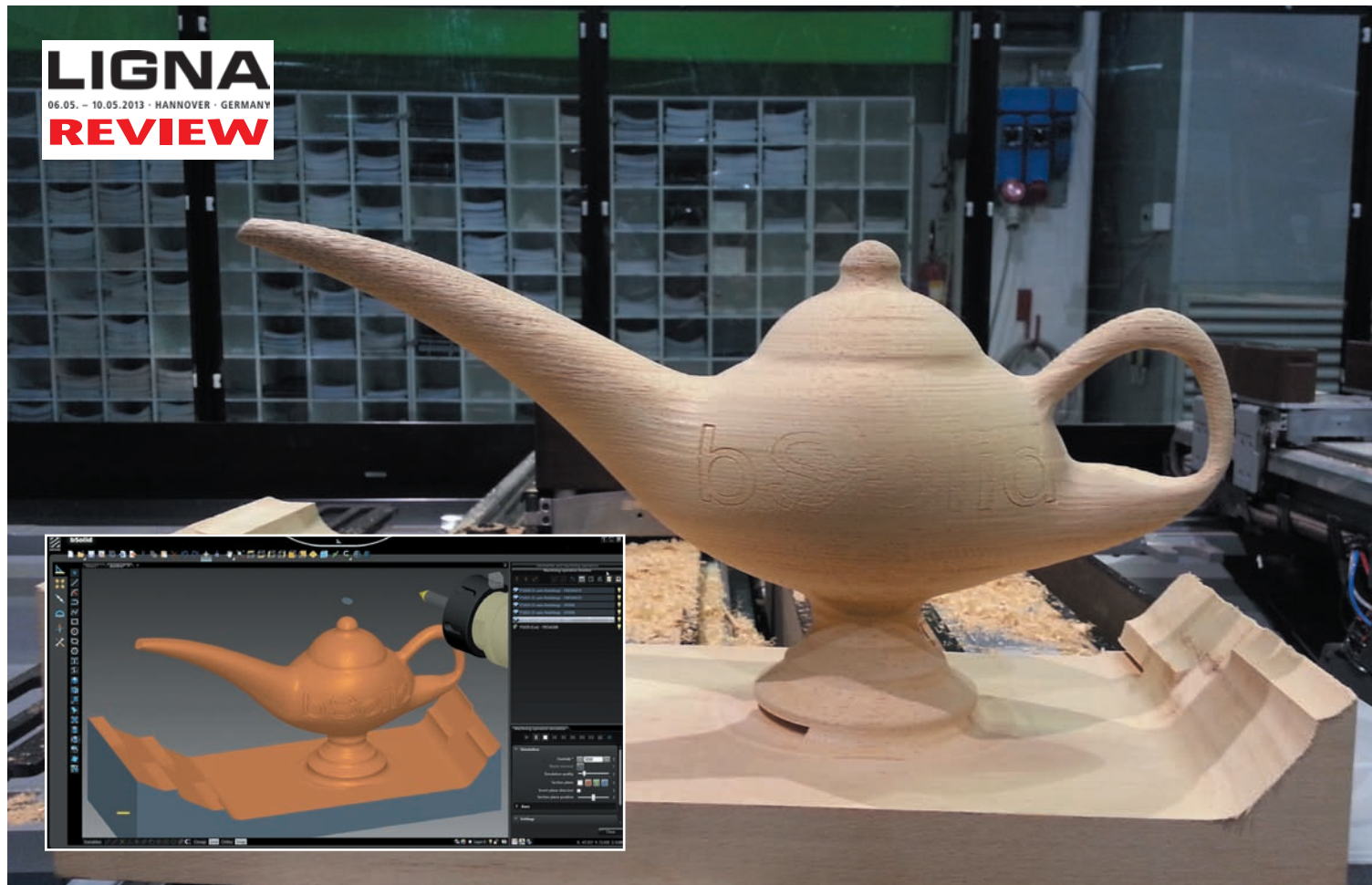


size one

6. Performance.sort is designed for Batch Size One processing and offers capacity of up to 1,000 parts in 120 locations at a rate of 800-1,000 per shift. The six-axis Kuka robot is controlled by KRC4 software and equipped with inventory control software and visualisation. Infeed and outfeed transports are integrated into the robotic controls.

7. Insertion of fittings is automated with a BMA-DLS-CNC drilling and assembly machine with automatic panel feeding. A vibration feeding system supplies fittings and insertion is carried out according to the pick and place principle.





no genies - just

For five days at Ligna, the Biesse stand was inundated with visitors, eager to see the latest innovations. Star of the show was the new, innovative bSolid software, capable of simplifying the management of numerically controlled machines to the greatest possible extent. Biesse has been developing this ambitious software for years. With bSolid, it is possible to simulate and design in a few clicks. bSolid incorporates a new learning system that brings with it simplified process management and reduced machining times. It is now possible to manipulate, measure and modify the finished part before executing it on the machine.

New CNC machining centres included the Rover A 5-axis. Featuring a powerful and interpolating 5-axis electrospindle and a drilling head with independent spindles, it is capable of machining parts up to 225mm (9") thick. The maximum panel width for routing is 1660mm

but the table design allows a panel with a 2100mm width to be positioned without interfering with the moving parts of the machine, allowing for more flexibility.

Making it possible to complete processing of a shaped and edge-banded panel with a single machine was Biesse's new Rover B G Edge series of edgebanding centres. The wide range of machines, operating units and technology, make the machine suitable for small workshops, or for prototyping.

The Rover K G is a new entry level panel processing machine with gantry structure which offers the compactness and flexibility of a working centre.

Biesse's Rover C 5-Axis offers a strong alternative to machines requiring cumbersome and expensive aggregates. It cuts machining times by reducing the number of tool changes required and is one of the most compact 5-axis units on the market - the perfect solution for the made-to-measure furniture and joinery industries.

If it's a new edgebander you're interested in, Biesse's MDS made its debut on the Ligna stand and was hailed as one of the most flexible systems on the market for medium-large scale users. This solution, designed for use in automated lines with other machines, guarantees square and final size of different format panels.

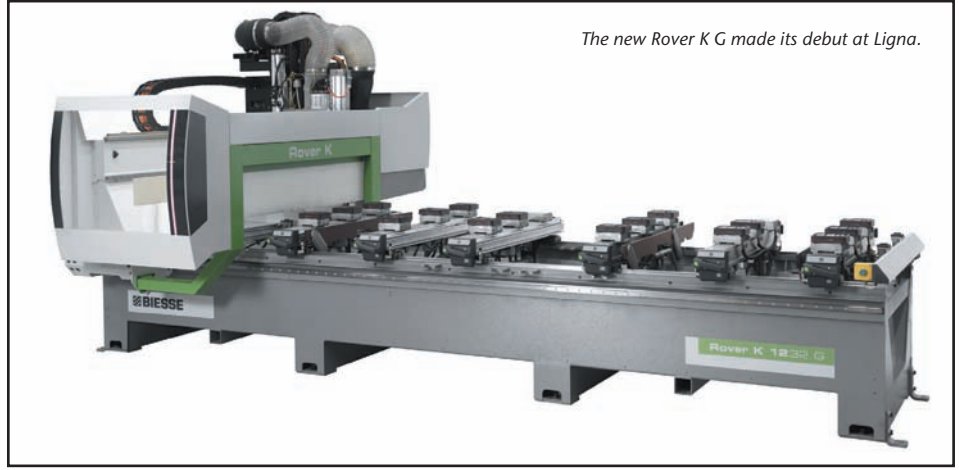
The Akron 400 single sided edgebander was also shown on the stand. Designed for use with coil edgings or solid wood lippings, it features compact working units, designed to simplify setup and a modern and user-friendly software interface. The Akron 1300 range has been expanded to include new, customisable models. There were also on-stand demonstrations on the Roxyl, the new automatic edge magazine, capable of changing the edge with the cabin closed.

For finishing, there was little to beat the Opera 7, Biesse's brand new high volume wide belt sander by Viet. Designed to be integrated into high

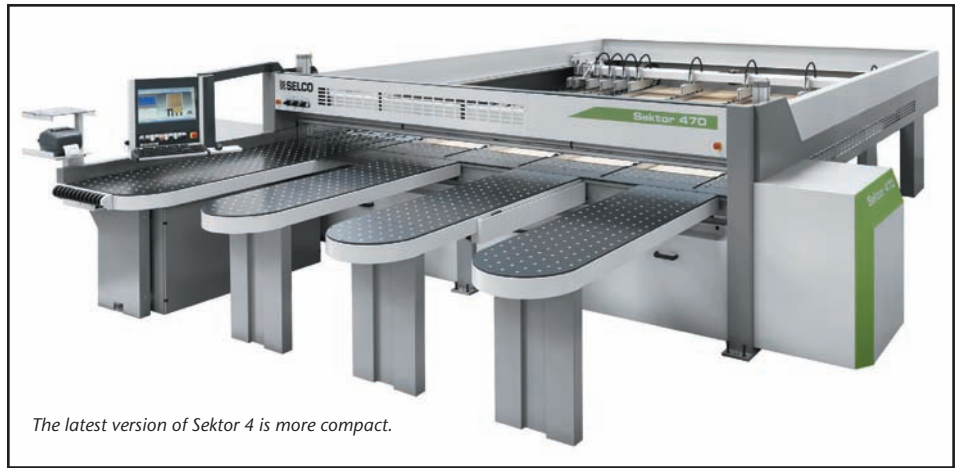


Left: Making dreams come true, Biesse's new bSolid software allows any user to access sophisticated features and turn an idea directly into a visual design of the "part".

Below: No genies on the Biesse stand, just genius.



The new Rover K G made its debut at Ligna.



The latest version of Sektor 4 is more compact.

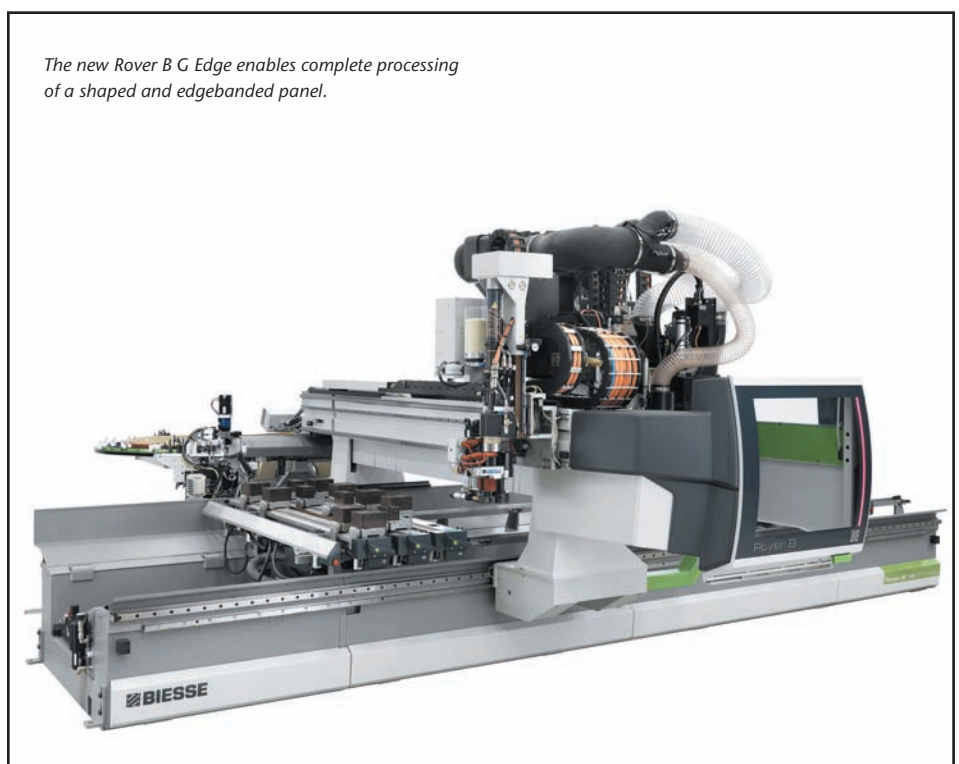
biesse genius

production finishing lines, the Opera 7 includes cross, roller, spinbrush, superfinishing and cross unit, making the machine suitable for a broad range of applications including presanding and superfinishing of veneered and painted panels to rustic-structured effect of raw panels or veneered and trimming of the outer edge of any kind of panel. This new machine offers generous sanding belts dimension (8700mm for cross belt unit and 3250mm for the longitudinal units).

Ligna also saw the launch of the latest version of the Sektor 4, distinguished from early panel sizing machines by its compact dimensions, more comprehensive specification and ease of use. Biesse also offers the optional Twin Pusher 1.2 device that provides two cutting lines on the same machine, executing multiple cutting phases simultaneously and reducing working cycle time significantly.

For more information call Biesse UK on 01327 300366.

The new Rover B G Edge enables complete processing of a shaped and edgebanded panel.





MAKES IT REAL



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REVIEW



The Maka PE90 at Ligna.

reflecting quality

Perfection of form, perfection of finish, supreme performance and depth of sound are well known characteristics of the Steinway, the finest piano in the world. Famed for unsurpassed subtlety of tone and favoured by concert pianists the world over, the Steinway Grand can be customised to suit the most demanding of performers. Reflecting similar qualities, the Maka CNC machines which manufacture elements of its casework and the delicate mechanisms which form its renowned action, provide accuracy and reliability to put Maka centre stage and in the spotlight with every performance.

Commenting on the Maka stand at Ligna, recently appointed MD of Maka UK Ltd, Iain Young, says, "The PE90 is an uncompromisingly accurate and robust machine which is ideal for timber processors who need a very quick, easy to use machine. There has been much

revising and updating of the production systems which have further improved its performance."

Rather like Steinway, Maka provides special solutions for each customer - and because of Maka's background in three-dimensional modelling, those special solutions often result in unexpected virtuosity. "What may at first appear as a complex task for conventional machines is often much simpler to execute with five-axis machining techniques," explains Iain. "Three-dimensional modelling also enables us to use cutting tools more efficiently, which, for the customer, means they benefit from a lower investment in the variety of tools they require. The precision inherent in the PE90 also means they last longer."

If Maka can deliver the performance demanded by Steinway, isn't it time you took a closer look? For details call Iain Young on 01952 607700.

There was an inescapable message behind the Steinway piano on the Maka stand at this year's Ligna.



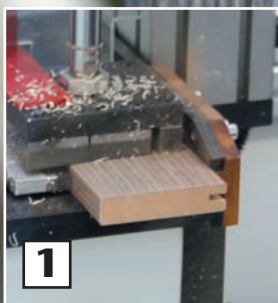
Iain Young,
Maka UK's newly appointed MD.

Stefano Babuin is the designer responsible for solving the problem of tidy end caps on five-piece doors. The BOR5 machine from Elme, launched at Ligna 2013, offers zero setup time and will edgeband practically any pre-routed or pre-moulded product. Its unique copying system ensures a perfect finish, copying the shape, edgebanding the end and trimming perfectly. End capping doesn't get any easier than an Elme BOR5 and it's now available in the UK through RW Woodmachines!



rw's

LIGNA
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David Thomson-Rowlands and the team at RW Woodmachines are never ones to stand around and let the grass grow. Firmly established with Giben, Anderson, Stema, Vitap, Bonacin and other top line brands, W12 saw the signing of a deal to represent veneer splicing specialists Fisher and Rückle in the UK. Breaking news on the first day of Ligna 2013 was yet another shrewd addition to RW's portfolio: Elme.

Elme's incredibly clever BOR5, designed by Stefano Babuin, could be the answer to the prayers of many a five-piece wrapped component door manufacturer. It provides a simple, effective solution - in three automated machining stages - to end-capping the vertical components. It took Stefano three years to solve the problem of the perfect finish but John Hoy, RW's Stema expert, is convinced that the BOR5's debut appearance at Ligna marks the start of a new era in the capping of flat pieces, moulded and routed components.

Sharing a stand with Elme's BOR5 was Stema's new Multipoint 3000 REV, the first generation of a new technology for window and door producers. With a footprint 30-40% smaller than a CNC router and investment at under half, the two tonne heavyweight "Revolver" (REV) Multipoint, with its additional eight horizontal tools, makes positioning, drilling, gluing and insertion of a wider range of workpieces simple. "All the operator has to do is count," says John Hoy.

For more information on the machines featured on this page, or for details of any of the companies represented by RW Woodmachines, call 01869 244943 or visit www.rwmachines.co.uk



The Furnimaster 24 from Fisher & Rückle enables one or two operators to joint veneer sheets easily. Clever design does away with much of the complexity involved in the process. Ideal for doors, the maximum width offered by the Furnimaster 24 is 2400mm and it will make 17-20 joints per minute. The machine pictured on the stand was making its premier appearance. Additional time-saving units can be added to production models. Call RW for details.

Right: From Giben's CNC division is the PTP Flat 3716 Nesting Line, shown with a 3.75x1.55 working table and 6 pop up pins.

Offering 3,880mm in the X axis, 1,835mm in the Y axis and 250mm in the Z axis, and speeds of up to 80m/min, the PTP Flat 3716 brings class leading performance to manufacturers whose budget isn't vast while Fanuc Oi Control and PC make operation simple and reliable.

Below: With a feed rate of 24m/min and a boring head comprising 10 vertical drill units (X), 7 vertical drill units (Y), 3+3 horizontal drill units (X) and 1+1 horizontal drill units (Y) plus a saw unit (drill pitch 32mm), the Giben CNC PTP 3214 is a powerful machine with substantial capacity. The machine shown was also equipped with laser positioning, a waste conveyor, a hand-held control device and full photocell barrier protection.



Above: Compact but feature-packed, the Giben edgebander KG 368J offers 10-20m/min edgebanding performance in a small footprint. Units in the machine on show at Ligna included pre-milling, gluing, pre-melting glue system, a pressing group, a cutting head, top and bottom trimming, a trimmer unit, a profile scraper and a buffing unit. PLC control adjusts all the units from a clear and concise screen.

Above left: The Giben Icon 1 beamsaw may not be brand new (there were rumours of a new model coming soon on the stand) but this entry level to the Giben beamsaw range deserves mention. Four flotation tables make for easy loading while a 13.2kW motor makes easy work of the machine's useful book height. Equipped with seven grippers, 11 unidirectional roller profiles and an SPV automatic vacuum loader.

Left: The Vitap Point 3 (CNC high speed point to point boring machine) was shown at Ligna with a brand new loading and unloading system. The patented conveyor is designed to protect workpieces from damage during continuous operations. Loading is automatic with zero settings by laser beam intervention. Productivity of up to 1,000 panels within an eight hour shift (without operator intervention, except for loading/unloading of pallets) are being claimed. Maximum panel size is 2,200x650mm and workpieces can vary by up to 20% in size.





One of three new Combilift trucks to make their debuts at Ligna 2013, the ingenious new Combi-WR4 Walkie Reach - the first multidirectional pedestrian reach truck the company has launched - was the star of the stand. Says Combilift MD Martin McVicar, "This very compact and manoeuvrable machine, our smallest model to date, handles palletised material as well as longer loads such as packs of timber or laminate in very confined areas and offers numerous advantages in terms of safer operations."

Incorporating the benefits of AC technology in its traction, pump and steering motors, this reach stacker has a lift height of 4.2m and a load capacity of 1,450kg. With electronic power steering, pantograph and side

shift functions it can work in an aisle-width of 2m pallet to pallet.

The multi-position tiller incorporates push button rotation of the rear wheel parallel to the chassis for placing and picking in the aisle. This enables the operator to remain at the side of the truck rather than at the rear, improving forward visibility. The risk of incidents in tight and/or narrow aisles is reduced as the operator is not positioned between the racking and the truck. In order to rotate the rear wheel parallel to the tiller the operator merely needs to push the button again (see above). 2-speed operation is controlled by a rabbit/turtle switch, and speeds can also be adjusted or customised to suit the level of the operator's experience.

Details from 00353 478 0500 or visit www.combilift.com

wr4 debut

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Above: The multi-position tiller (patent pending) enables the operator to remain at the side of the truck instead of between racking and truck.

COMBi-WR4

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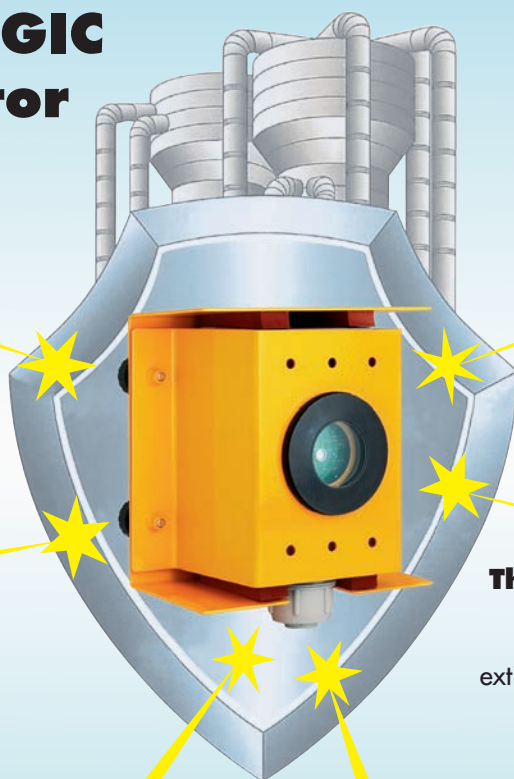
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CONTROL LOGIC Spark detector

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systems
to protect
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from the risk
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The CONTROL LOGIC SPARK DETECTOR

is faster than the sparks themselves. It detects them with its highly sensitive infrared sensor, intercepts and extinguishes them in a flash. It needs no periodic inspection.

The CONTROL LOGIC system

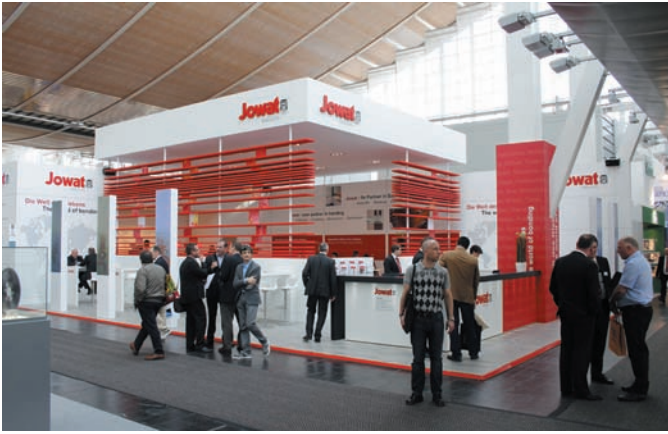
is designed for "total supervision". It verifies that sparks have been extinguished, gives prompt warning of any malfunction and, if needed, cuts off the duct and stops the fan.

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Tel.: + 39 02 5410 0818 - Fax + 39 02 5410 0764
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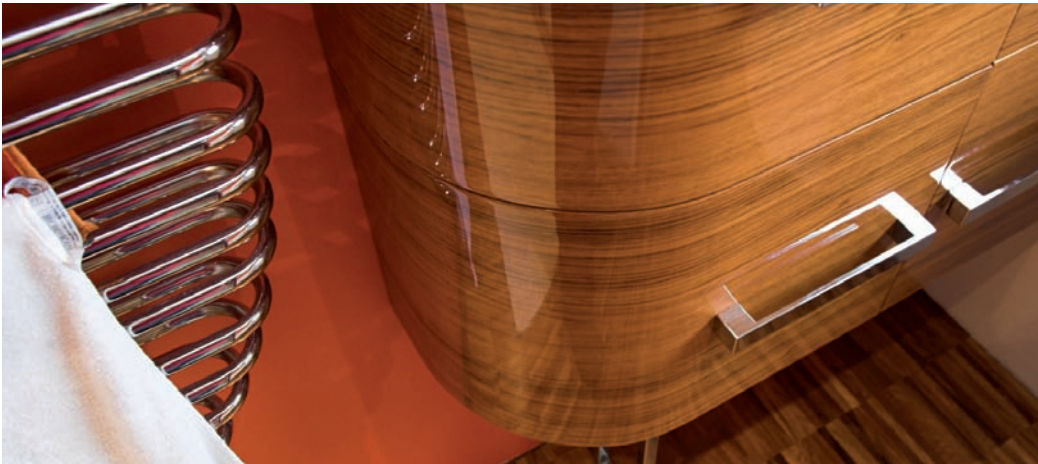


Left and below. Among other highlights on the Jowat stand, the company introduce its latest developments for surface lamination, PVC window profile wrapping, and assembly of laminated timber.

For surface lamination, Jowat introduced the latest formulation of its PO hotmelt, Jowat-Toptherm® 236.30. Providing high surface quality and low VOC emissions, Jowat-Toptherm® 236.30 also gives high impact resistance (Shore hardness), reducing pattern transfer on the surface which might occur on laminated components when stacked - even when higher temperatures of up to 80°C are used.

Because adhesive formulations based on the new PO polymers only require low resin quantities for achieving the required tack, a substantial reduction in VOC emissions is possible. Jowatherm-Reaktant® 603.80, a clear PUR hot melt adhesive used for lamination applications with high-gloss foils, also offers enhanced impact resistance. This PUR hot melt adhesive exhibits a wide spectrum of adhesion which will make it suitable for numerous material combinations and décor variations.

For more information and full technical specifications on all the latest formulations, contact Jowat UK on 01785 330622.



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Right. The new range of automatic circular saws from Casadei Busellato was conceived to fulfil the needs of a more demanding and qualified market. The Xenia 40 is solid machine with prismatic guideways and preloaded ball bearings for smooth and precise sliding of the carriage. The Xenia 40 has a powered rip fence and is equipped with overhead control panel. A wide range of options caters for all processing needs. Call IWM on 01869 244943.



Left. Busellato presented its new 5-axis Optima Jet T5 at Ligna 2013. A highly innovative working centre with lots of options as standard, the Optima Jet T5 is designed to provide the performance of much higher level machines with a price that's been engineered to appeal to smaller users. For an up-to-date specification call IWM on 01869 244943.



Right and below. The KDP 117 SLK-P Edgebander from EBM (also known as the AKV 3007 DK-F) is one of a new generation of edgebanders that brings to the smaller user the benefits of traditional edgebanding with the advantages of an easy switch over to laser edgbands. On the show model were seven aggregates including two milling aggregates, a corner rounding radius scraper, a surface scraper, a buffing station and a grooving saw. Individually built, the basic machine offers edge processing at 10m/minute. The laser unit can be fitted to all AKV models and all 3000 models from the 3001 to the 3006.



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Call Ney: 024 7630 8100

new from ney



Left. Take a look at this little star performer. The new CE223X Duo from Virutex is one of those neat ideas that makes you wonder why no one has thought of it before: it's a hand planer and an abrasive wheel in one! Available exclusively through Ney Ltd.

Right. Looking for a really neat cross cut saw? Take a look at the new Iguana 205W from Harwi. Rotatable left or right through 60 degrees and tiltable left 45 degrees and right 60 degrees, this clever little machine keeps its zero point from any position. With a cut height of 205mm and cutting length of 425mm, it's a real star.



Right. GG Machine have wrapping all wrapped up with their two new pre-stretched wrapping machines, available through Ney Ltd. Shown right is the Twister 2200, a prototype machine that was making its debut at Ligna. The two rings turn in opposite directions, adjusting to differently sized products and saving material.



Far right. Want to make five-piece doors? The Unique may not be a new machine but it's definitely the answer to small workshops that want the hassle taken out of door production. Call Ney Ltd for a leaflet.





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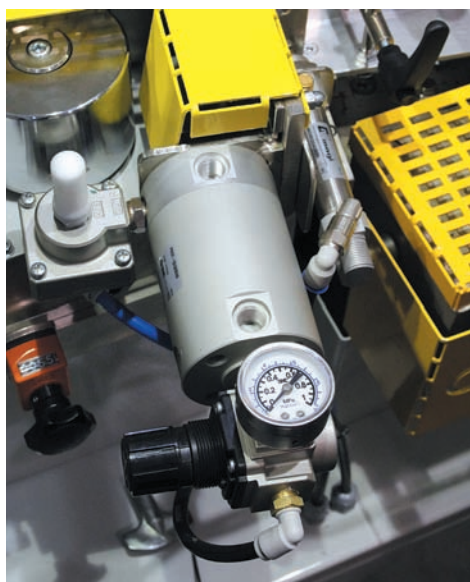
REVIEW

Below. Part of a new range of four models the Fast from Fraval has been designed for edging panel thicknesses of up to 60mm with edgebandings of up to 6mm. A patented corner rounding unit enables the Fast to process 10-60mm panel thicknesses with just one motor. This really is a small machine that punches well above its weight. The Fraval range of edgebanders is available through edgebanding specialists Ney Ltd of Coventry.

Above and right. The Rapid is the top-of-the-range model from Fraval. With 10-25m/min processing, automatic gluing, multi coils, etc., this nine-metre edgebander has a lot to offer. Fraval's Fusion system (right) can be added, enabling laser edgebanding materials to be used without the cost of a laser. Fusion uses air at nine bar pressure which is heated to 650 degrees Celsius to provide a glueless bond. The Rapid will even process panels of up to 120mm in thickness. Call Ney Ltd for more details.



new from ney



Right. The Senator 270 is the first new machine from Cehisa to offer 32m/min processing. With automatic panel thickness detection and servo engines on all groups, it's designed for high production. The glue system and heads are all of new design.

Left and below. The Bryko PS from Cehisa was one of three new models at Ligna. Designed for processing solid wood, the motors and cylinder (below) have been beefed up to cope with 5mm edgings. For details of all new models from Cehisa, call Ney Ltd.



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ligna launches fro

More than 30 innovations and developments - including several completely new machines - made their debuts on the Weinig stand at Ligna 2013.

In keeping with the slogan *Weinig Works Wood*, Weinig used Ligna 2013 to show innovative production technology, designed to achieve equal or even greater output with reduced usage of valuable raw materials. On the stand were more than 30 innovations and developments.

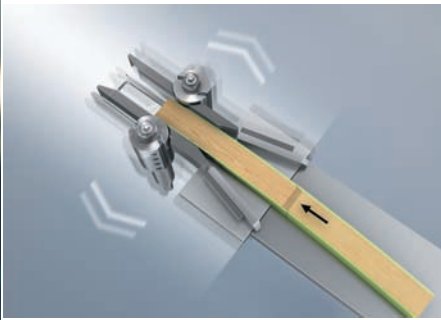
In the spotlight on the stand, the tried and tested Powermat 600 demonstrated reliable and precise processing of small components. The outstanding feature of the machine at Ligna was the new PowerCom Plus control which, together with Power Set, ensures quick and precise set-up of even complex profiles via six CNC-controlled axes.

The brand-new Moulder Master software celebrated its world premiere, combining all processes upstream of production and enabling profile and tool drawings to be created in a CAD interface. With the new Powermat 600 C, Weinig presented a new entry-level machine in the Powermat class enabling rapid dimension changes and a high degree of user-friendliness.

The Powermat 2400 XL is Weinig's newest machine for large dimensions in construction timber. The machine has a working height of 25 to 200 mm and a working width of 40 to 310 mm. A new chamfering unit mounted at 90° also allows for radii and curves. The 30°-angled straightening spindle significantly reduces planing "snipes" and "dips", thus avoiding time-consuming additional work steps with the associated wood losses.

The Hydromat class for large timber cross sections also saw the introduction of a new model, the new Hydromat 45 and, with its brand new automatic stacker, the range of accessories for the compact entry-level 4-sider Cube was further extended for Ligna.

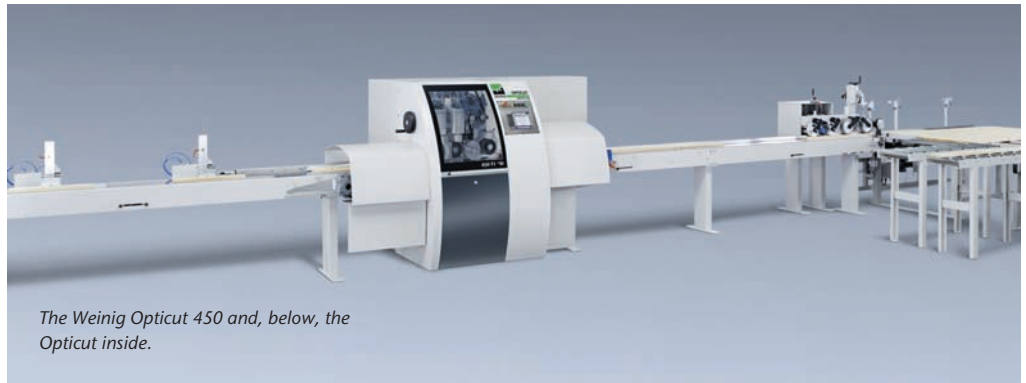
With its OptiLink demonstrations, Weinig showed what's believed to be the world's first fully-automated pre-cutting system for 2D optimisation. The line included a CombiScan+ R 200 scanner for rip-sawing and cutting, a ProfiRip 450 Speed optimising circular saw and an OptiCut 450 FJ+ III high-



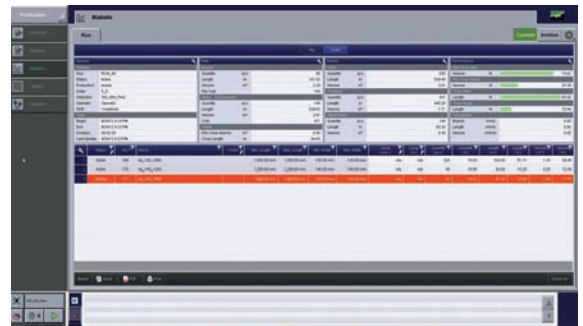
Above: Weight-reduced floating spindles left and right provide for maximum wood yield (Powermat 2500).

Left: Weinig's Powermat 2400.

Below: The 30°-angled straightening spindle significantly reduces planing "snipes" and "dips" (Powermat 2400 XL).

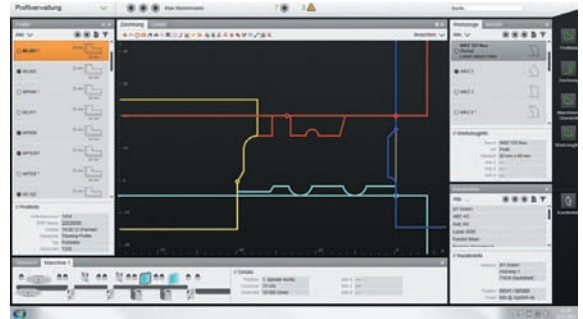


The Weinig Opticut 450 and, below, the Opticut inside.



Above: OptiLink.

Below: Moulder Master.



m weinig

speed optimising cross-cut saw with ST 10-1500 automatic stacker. The entire system was connected via the OptiLink software, which was initially presented as a concept in 2011 and now comes to the market as a solution for the networked production process of production lines with several scanners. OptiLink continuously compares target and actual values of required quantities and qualities in both applications. Together with the ERP interface, this ensures that the system only produces what is required. Besides optimisation of the cutting process, the system also stands out for its new generation of servo drive, which provides maximum cutting performance under continuous operation. With fixed length cutting from 80mm, higher timber yields are guaranteed and the modular concept enables capacity to be extended for up to four OptiCut units.

Also launched at Ligna 2013 were the Elite optimising circular saw, Weinig's standard solution for simple applications in rip optimising, and the

new OptiCut S 90 XL Superdrill pushfeed saw. The new Superdrill combines the work processes of cutting, drilling and milling in a single machine. There was also a new OptiCut Stacker P package stacker for automated stacking of fixed lengths cut in packages and a new ProfiPress L II Comfort high-frequency gluing press with semi-automatic glue delivery.

New feeder rollers were also shown on the stand. Noted for their better grip, which ensures optimised workpiece transport, the new introductions facilitate lower contact pressure, reducing indentations in the wood, reducing wear and build-up of debris, and ultimately extending the service life of the rollers.

New Dual tools were also introduced. Offering high rigidity, the combination of steel and aluminum materials facilitates large working widths as well as large diameters and correspondingly high cutting speeds which result in very good surface quality.

Call Weinig on 01235 557600.

Weinig AG confirms it was a "thoroughly positive" Ligna 2013 with sales of 160 machines and systems across the group exceeding the results from 2011. Holz-Her, the derived timber products processing specialist within the Weinig Group, also recorded a significant increase in orders compared with the previous Ligna. The sound overall results from the trade fair were also supported by intensive demand from Eastern Europe, particularly Russia, as well as North America. "Also gratifying was the significant increase in the proportion of foreign visitors, who accounted for 40 per cent of professional visitors."





Below and left. Aerotech took pride of place on the Cruing stand at Interzum 2013. The internal shape is designed to blow waste away from the tool, ensuring a better finish and, across on the Homag stand, a specially developed version of Aerotech with a new grill (left) was shown on a Homag Console machine and was producing an estimated 60% less dust from MDF than might be expected of conventional tooling. Although Aerotech is not new, the collet system is: a hydro system has been employed to provide precision to three thousandths of a millimetre. Call Cruing on 01270 872924.



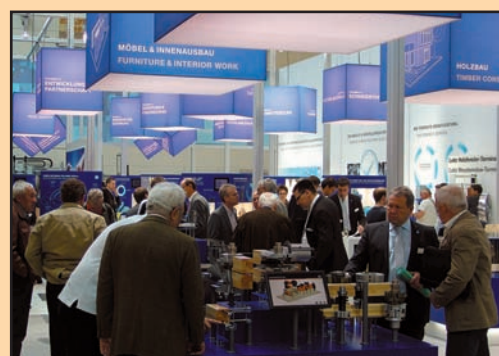
Above. Leuco launched its new P-System for chip-free, high performance jointing and sizing of solid timber, laminated, foiled and veneered panels. Cutting at 70°, the 150 knives slice rather than cut for a perfect edge. Call 01279 657821.

tooling at ligna

Can you see the tiny holes in IWO's newest TCT drill bit, "Air"? Whilst boring, they blow the chips from the tip and simultaneously cool the drill bit. What a neat idea - and so simple. Available through Leuco: 01279 657821.



Below, right and above. From a burgeoning Ligna stand, Leitz presented six innovations, all with common strengths: all increase process efficiency and quality. The Marathon coated Profil-Cut knives for profiling furniture and window components and plastic and non-ferrous-metals yield significantly higher performance times, increase machine productivity, reduce tungsten carbide consumption and decrease tooling costs. Leitz claims the special profiling technology gives finish cut quality until the end of the performance time. Call 01279 454530, www.leitz.org.uk



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magic mirka

With its DEROS (Direct Electric Random Orbital Sander), Mirka® launched the “first ever” electric sanding machine with a brushless motor and no external supply at Ligna 2013.

Light, powerful and with Mirka® reliability, the performance of the new DEROS is said to be equivalent to a conventional 500W electric machine. The brushless motor and closed construction (which prevents dust from entering the motor and allows the machine to be much smaller) ensure long lifespan and there are fewer components to fail. But there's much more to the DEROS than reliability:

One of the key features is the soft start function. There's also a built-in electronic motor brake and a smooth, easy-to-operate lever to control speed. The power cord is removable and interchangeable. And, as with all Mirka® machines, top priority has been given to ergonomics: the DEROS remains comfortable if used for long periods, regardless of whether used in the left or right hand. Even the backing pad is of new design, with a central air inlet for improved airflow and better extraction of dust.

Call 01908 375533 or visit www.mirka.com



A brushless motor minimises maintenance, reduces vibration and makes the Mirka® DEROS half the size of a conventional hand sander. No external power is required, yet the machine is as powerful as a 500W conventional hand sander. 125mm and 150mm backing pads are included in the cased version.

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Right. The Striebig 4D type 6224 with an extensive range of additional equipment, including ASP automatic saw beam positioning. The saw beam does not have to be moved manually. It moves to the right position in accordance with the programme settings.

Below, top to bottom. The clamps of the fully-automatic PAV panel lowering device are coated and are therefore suitable for sensitive surfaces. They also hold heavy panels - up to 130kg for each PAV unit.

The fully-automatic, programmable panel feeder (PPS unit) allows the workpiece to be transported horizontally through a 4D. The unit grips the panel and positions it with 1/10mm precision. All the operator has to do is remove the cut workpiece and stack it. Done.

EPS.x – vertical cutting at your fingertips. The operator simply taps in the position for the vertical cut on the 12" touchscreen panel of the 4D.



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REVIEW

4D striebig

Striebig's new 4D vertical panel saw, launched at Ligna 2013, has been designed with full customisation in mind.

With its new 4D vertical panel cutting centre, Striebig created a new benchmark at Ligna 2013. The fully-automatic PAV panel lowering device, the PPS programmable panel feeder and the POP panel optimisation programme options make single person operation a cinch - but there were other reasons why the Striebig 4D was attracting a lot of interest.

The POP is fully-integrated into the saw's control system and guarantees an optimum sawing procedure and the best possible material utilisation. Interfaces to standard PPS and AV systems can be adapted individually to the saw's POP.

The PAV and the PPS increase the efficiency and productivity of the saw. The coated clamping fixtures on the panel lowering device (PAV) hold the workpiece firmly at the upper edge. Each clamp holds up to 130kg; heavy panels present no problems. The bottom trimming cut and strip cutting

work are performed effortlessly while the PPS unit (programmable panel feeder) ensures that the panels are transported fully-automatically, efficiently and horizontally through the 4D. The panel is placed securely on the roller support. The special clamp of the PPS unit grips the panel, positions it with 1/10mm precision and cuts – done! All the operator has to do is remove the cut workpiece and stack it.

A 4D can never be an "off-the-shelf" saw. With its extensive range of basic equipment and comprehensive enhancement options it holds the key to improving your cutting process but important factors are expert consultation and adaptation of the equipment in line with your operational requirements. Internally and with its sales partners, Striebig is focusing on customising and providing sawing solutions that are up to 100% tailor-made.

For information call TM Machinery Sales on 0116 271 7155 or visit TM's website at www.tmmachinery.co.uk



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REVIEW

Kleiberit's new HotCoating technology offers savings of up to 30% compared with normal lacquering processes - and it caters for seamless continuation of the surface to the edge.

hotcoating technology

HotCoating can be used as a printing base for digital print, or as a surface protection.



Secure adhesion to melamine; excellent mirror and depth effect with comparably low coat weight; extremely elastic and highly flexible properties of the coating layer; and best micro-scratch resistance (steel wool type 0) with extremely good shock resistance - these are the claims Kleiberit was making for its HotCoating process, demonstrated on the stand at Ligna 2013.

For finishing melamine surfaces, HotCoating technology offers exceptional adhesion of the coating to the surface and provides many advantages, notably design variety and price, and for finishing with deep high gloss and scratch resistance. Intensive pre-treatment of the surface is not required and HotCoating technology even works with textured surfaces.

Kleiberit's HotCoating process has been developed so not only is it possible to achieve high gloss, it is also possible to achieve super matt at the push of a button. An intelligent chemical/physical system, the excimer technology facilitates the production

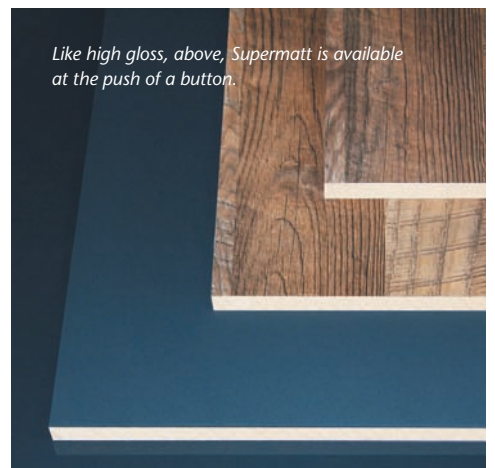
of surfaces from >90GU high gloss right through to >5GU super matt, all with the same abrasion, scratch and shock resistance. Further, the highly flexible HotCoating film allows for interesting 3D textures with simple embossing calendar technology.

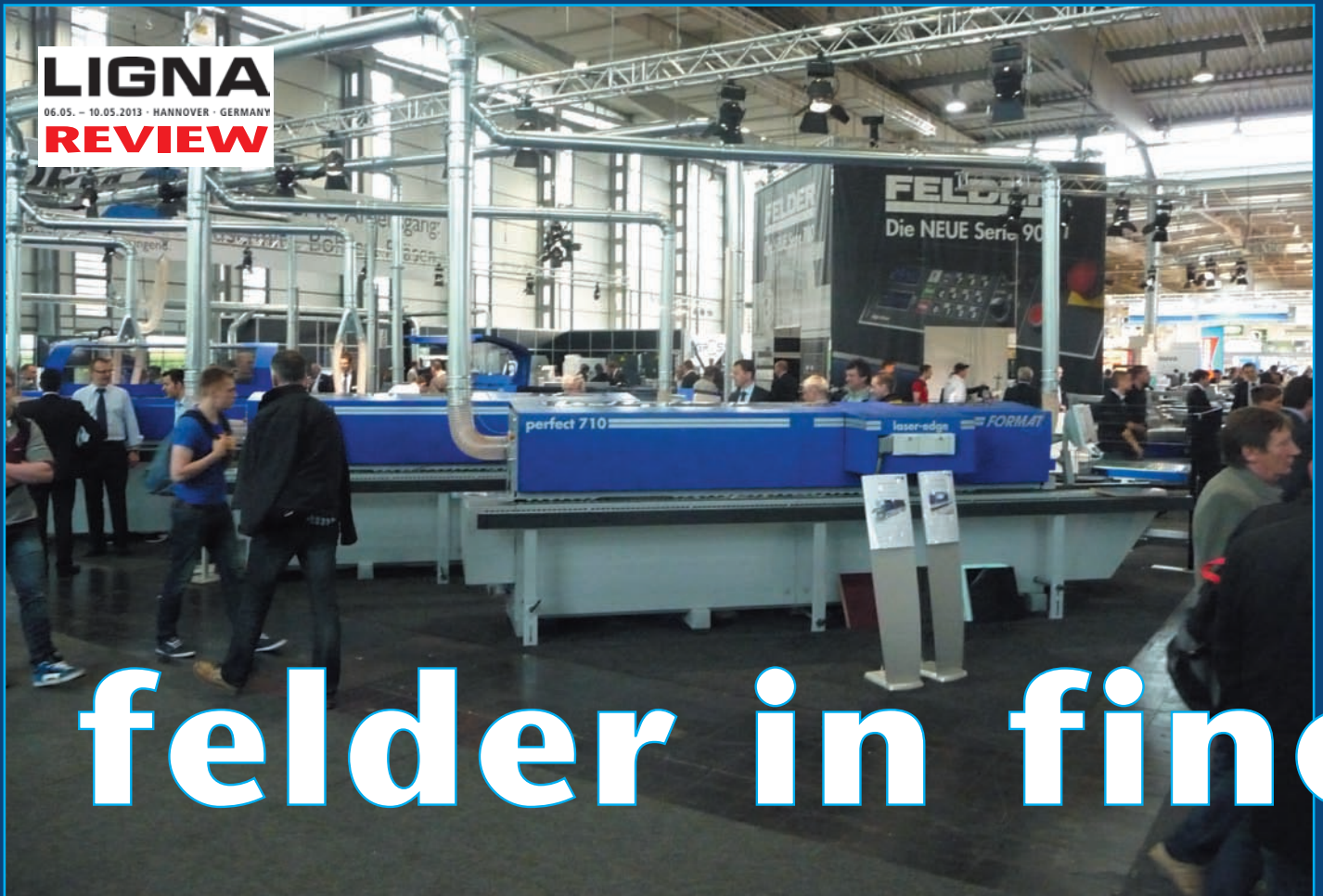
Between the surface and the edge, HotCoating Design Edge offers the possibility of a seamless continuation of the surface through to the edge of the substrate - and, due to HotCoating's flexibility, finished melamine surfaces can be shaped in the direct postforming processing. Seamless design without a glue line between the surface and edge becomes simplicity itself and, by utilising specially developed adhesives from Kleiberit, even the tightest radius is possible. Where traditional high gloss surfaces reach their limits in this application (partly because of thickness, partly because of the surface, which is often crystalline and hard), HotCoating Design Edge remains easy to shape to a small radius without cracking.

Call: 01530 836699, www.kleiberit.com



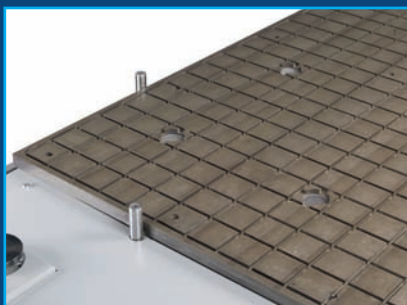
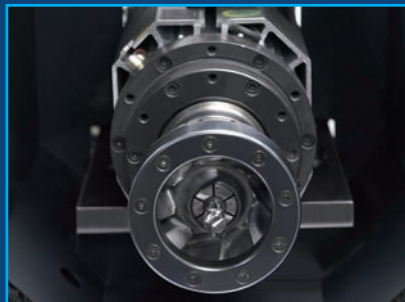
Like high gloss, above, Supermatt is available at the push of a button.





felder in fine

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Above: The profit H08 from Format-4 is the CNC machining centre for professional nesting applications in the smallest of spaces. Available in two sizes and two configurations, the matrix table with optimised grid geometry makes it possible to process the full surface of the workpieces regardless of the size or design. The reference fences that are mounted directly to the table also assist in the optimal use of off cuts and can be optionally monitored with collision prevention sensors. Three different vacuum systems are available: 180, 250 or 500m³/h as well as 6 or 8 manually controlled vacuum fields. The high performance main spindle has 10kW of power and rotates at 24,000rpm. Up to 10 tooling positions ensure quick tool changeover times. The portal design with 'Gantry' drive using two synchronised servo motors ensures precision.

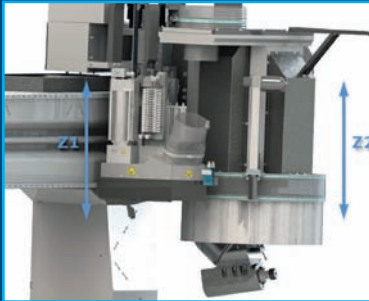
Below: For short changeover times between EVA and PU edges, Felder's new Perfect 812 edgebander is equipped with a Teflon coated changeable gluepot which can be changed without tools in record time, allowing for glue or colour change. The fine adjustable glue roller ensures that the correct amount of glue is applied to the work-piece and enables the perfect configuration for different edge materials. Application controlled spray nozzles ensure clean processing of edges with sensitive surfaces and reduce the consumption of spraying agent.



Right and below: The individual processing of different materials is becoming an ever more important factor in universal workshops.

The precise 5-axis spindle on the Format-4 profit H50 guarantees limitless creativity and reduces the initial investment and subsequent costs for special aggregates and tooling.

Features include a rotary tool changer which travels with the outrigger; an e-motion console system with automatic module control and an aggregate mount with two Z axes and 500mm directional movement (below).



form



Left and below: With a total length of less than 2 metres, the Felder G320 is one of the smallest edgebanders with chain feeder on the market. Features include quick adjustment, a centralised control panel, constant pressure from the 2 pressure rollers, Felder's "Quick-Set-System" for quick and precise adjustment to different edge band material, pneumatically controlled guillotine cutters, a Teflon coated gluepot with 1.2kg glue capacity and quick change between flush, bevel and radius trimming. All that in a machine with a diminutive footprint!

Above and right: The perfect processing of coiled material and solid wood strip material up to 6mm in thickness on workpieces from 8 to 60mm in height is one of the highlights of the machines from the Felder Professional series. The Felder chain feeder with offset feed rollers and a feed speed of 11m/min guarantees reliability and smooth transport of the workpiece through the machine. A newly designed end cutting unit removes edge overhang leaving no residue.



Left: With sliding table lengths of 1300mm, 2050mm or 2500mm, the KF 700 and KF 700 Professional have sufficient space for the easy and comfortable processing of larger workpieces. The KF 700 S Professional optionally offers a sliding table with 3200mm and an outrigger up to 1500mm. A new innovation on the KF 700 S is the CE conforming overhead saw guard, which offers maximum operating safety and flexibility, especially when processing larger workpieces, where it can be swung away without needing to be removed from the machine.



altair flying at

Above: RW's new Stema Altair.

Building style and robustness into price conscious contract furniture demands careful attention to costs. Gresham's new Altair is having a positive impact.

Providing furniture to police forces, universities and the NHS, Gresham has become one of Britain's leaders in the growing workspace furniture sector. Stylish features befitting modern offices must go hand in hand with robustness and keen price points to attract such contracts - and those in turn demand careful attention at the design and production stages.

It's with both in mind that Gresham recently decided to invest in an Altair multi-function work-centre from RW Machines. Since its installation, the Altair, designed and manufactured by Italian principal Stema, has reduced operator input at the panel processing phase from five or six skilled technicians down to only two, releasing key individuals for reassignment to other top production positions - and it's already demonstrating the equivalent of six-figure savings in production costs.

Production Director, Tony Baines, confirms, "Instead of setting up four CNC and drilling lines independently, production scheduling for the new system comes down direct from the

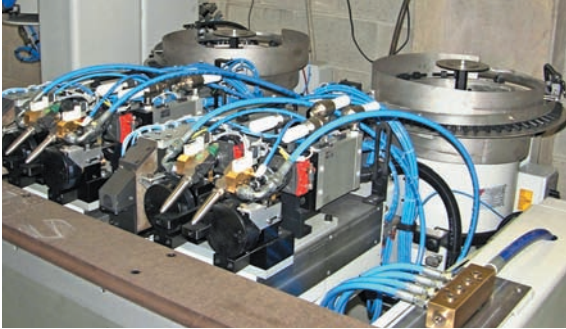
drawing office to the new workcentre. Panels then go directly to assembly stations, which speed up production and work towards the elimination of a lot of re-make consequences."

Using the Altair, Gresham is able to process all six faces of every panel, working at speeds up to 90m/min and to very exacting standards of positioning accuracy, all from a 10sq/m footprint. As work progresses, fresh panels are introduced on one side of the Altair as work is taken off, either manually or automatically, at the other. In addition to shop floor operator savings, Tony Baines says that Altair is also saving upwards of 30 sq/m of floor space.

Batch-size-one is the working minimum and Altair also fulfils many other panel needs: drilling and inserting of dowels at speeds of 1.2 seconds per dowel; pre-programmed drilling and recessing for hinges and fittings; grooving and shaping for ventilation or embellishment; and a wide range of other panel processing functionality. Altair also presents the ultimate in fail-safe routines: for example, if the glue

Below: The Altair carries out drilling and automatic insertion of hardware.

Bottom. Safety precautions prevent users from accessing any part of the machine until production activity is halted.



With more than 25 years experience in the UK market, RW Machines of Bicester has flourished as an independent supplier of woodworking machinery. Working with many of the prominent names in the industry, RW offers CNC routers, edgebanders, panel sizing equipment and printing and packaging machinery. Other fields of activity for the company are presses for carcass assembly and membrane pressing of vinyls to fascias.

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gresham

injection system does not deliver adhesive to a dowel hole, the machine stops and indicates the position of the failure. The system is also self cleaning - another industry first, according to David Thompson-Rowland. This process is triggered automatically and implementation is all on-board the machine - no more need for messy pipes, tubes and drums of water on the shop floor! This multi-tasking versatility moves Stema's technology up a notch from drilling and dowelling and into the low cost end of the CNC work-centre arena.

"A key task in the early weeks of working with Altair," says Tony Baines, "has been convincing my top shop-floor operators that they can leave this new machine to get on with the job. Our four original drilling lines needed to be closely overseen to anticipate problems; but if a problem comes up on the Altair it just stops - and it indicates the position of the hold-up so it can be quickly sorted."

Engineers from RW Machines have been working closely with Gresham

during the set-up and early operating phases of the new Altair program and MD, Julian Roebuck, and his key production people have been experimenting under the watchful eye of RW's MD, David Thompson-Rowland. Altair's flexibility is opening up manufacturing options that Julian hopes to use later as part of his plan to develop the workforce. "For Gresham, the key to success is providing the highest quality furniture for customers, through a highly skilled and motivated team of people using the best production technology currently available," says Tony.

With that in mind, RW's David Thompson-Rowland is also currently working with Stema in Italy on a new tracking and logistics system to distribute work-in-progress panels to a range of carcass assembly points.

To find out more about the Altair, a DVD is available from RW Machines which demonstrates the panel processing scope and speed. Copies are available from sales@rwmachines.co.uk or alternatively call 01869 244943.



Above: Batch size one continuous processing. Logistics are currently under review with RW Machines.



Main. Angle cutting on the Salvador SuperAngle 600.

Below. Intuitive control interface with graphical optimisation to assist programming.

salvador sensation

Daltons Wadkin say Salvador's innovative, fully automatic, optimising crosscut saws are selling well in the UK.

Boasting accuracy of up to 0.1mm, material savings of up to 15% and three or four salaries, plus significantly reduced operator risk, a Salvador automatic crosscutting machine has major benefits to offer. Alex Dalton, Director of Daltons Wadkin, the exclusive supplier of Salvador in the UK, says, "To stay competitive, operating costs and wastage must be cut and productivity increased, whilst maintaining quality. This is where Optimising Crosscuts bring huge benefits."

When replacing manual crosscutting practices, Salvador Optimising Crosscuts, such as the SuperPush 200, can reduce timber waste by up to 15%. A cutting list is either entered directly at the machine interface, remotely from an office PC or imported from a USB stick. The Salvador then optimises the list, allowing for trim cuts etc. Typically, a Salvador automatic crosscut will replace up to three or four manual crosscutting machines. With only one operator of basic skill level required to run a Salvador, more skilled operators can be deployed in other key areas.

Manual crosscutting remains a dangerous operation, especially when

on a monotonous production line. All automatic Salvador crosscuts employ the latest safety features making it virtually impossible for operators to injure themselves during a momentary lapse of concentration. And with accuracy of 0.1mm and a regulated cutting speed and depth, the machine will quickly adjust from cutting single lengths of hardwoods to large packs of softwood.

Despite strong competition, Daltons Wadkin say Salvador's sales in the UK have increased. Salvador's policy is one of constant innovation, rethinking and customer engagement, resulting in the SuperPush and SuperCut range which, according to Alex Dalton, has made Salvador the envy of its competitors. The most popular model for the UK market is the SuperPush S200 Optimus. Everything is standard. The infeed table is available up to 6.2 metres and is inclined at 30 degrees to aid loading and keep material against the fence. The pusher, with 110kg load capacity, is equipped with luminescent marking recognition for defecting and includes automatic board length reading. It has a pusher speed of 60 or 180m/min and accuracy of 0.1mm. The saw unit

provides a sawing cycle of 0.2seconds, takes blades either 500 or 550 mm to provide capacity up to 240x150 mm or 300x110 mm. The controls include a dedicated on-board PC with intuitive operator interface for every aspect of the machine which can be linked to a network, allowing access to remote office staff for uploading new cutting lists in a Macro Excel format ready for use. The outfeed can be configured with standard three metre configuration plane, automatic length selectors and ejectors, automatic pack collection, waste removal and other options as required. The SuperPush S200 is also available as a fixed length machine for standard cut to length requirements, maintaining the high quality construction and control system but for an entry level budget.

Other models in the Salvador range include the SuperAngle for automatic angle cutting, the SuperPush 250 with automatic infeed loading system, and the SuperCut series for high production defecting.

For details call Daltons Wadkin on 0115 986 5201 or visit the company website www.daltonsmachines.com



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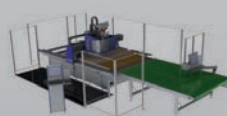
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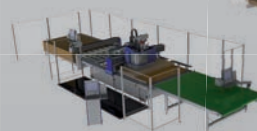
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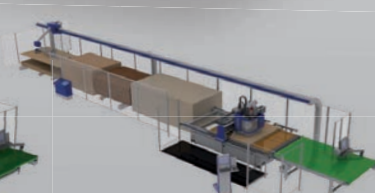
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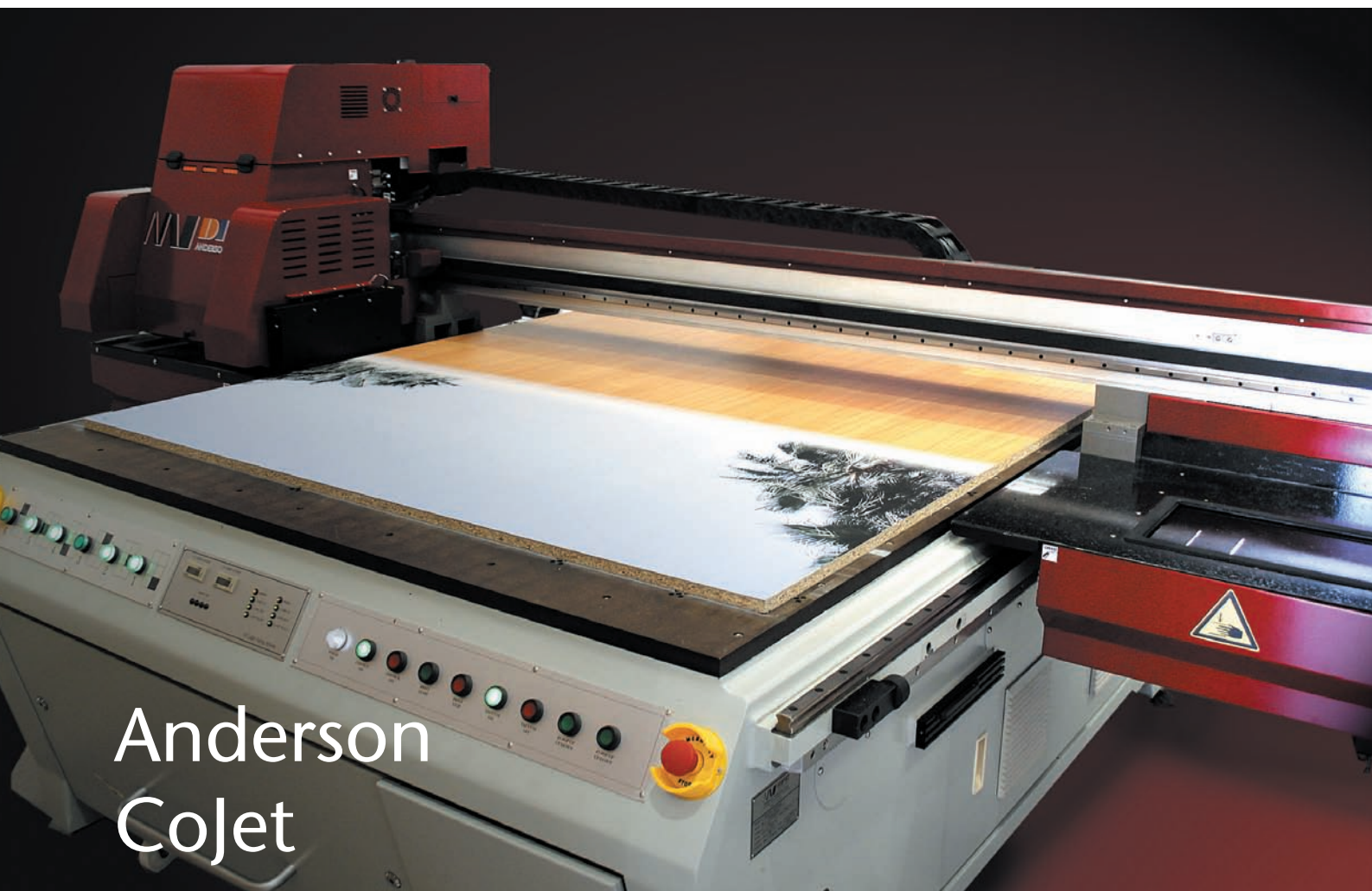
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inside story



Anderson CoJet

The revolutionary CoJet 2612 industrial inkjet printer made its UK exhibition debut on the RW Machines stand at W12 last autumn. Enabling high definition flatbed printing of anything from woodgrains to colour photo images or complex graphic artworks onto a wide range of flat 8x4ft panels, the CoJet will also print batches or random smaller panel components - like cabinet doors, for example.

CoJet not only prints with inks that are warranted UV stable for eight years, it can even add texture to the printed surface.

The generously proportioned table (2600x1200mm printable area) takes individual workpieces up to 500 kilos in weight and CoJet 2612 will also print several different designs bi-directionally at a single pass and with a print

definition of 720dpi. For comparison, the images on this page were printed at 300dpi using a coarser screen.

A new 1440dpi ultra high speed printing option was also launched at the last Atlanta exhibition.

The inkjet heads will return to overprint an image up to eight times, building a surface with real depth and covering around 20 sq metres per hour in normal production mode. The resulting image of a natural woodgrain - like oak, or other deep-pored timbers - is convincing to both eye and touch. And in addition to wood-based panels, CoJet will print onto almost any other material - metal, ceramics, glass, foam boards, acrylics and even concrete, making it a very useful tool for manufacturers who cater for the display and shopfitting sectors.

With more than 25 years experience in the UK market, RW Machines of Bicester has flourished as an independent supplier of woodworking machinery. Working with many of the prominent names in the industry, RW offers CNC routers, edgebanders, panel sizing equipment and printing and packaging

machinery. Other fields of activity for the company are presses for carcase assembly and membrane pressing of vinyls to fascias.

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Above. Inks are stored for use on the machine in individual plastic containers in pull-out drawer-trays under the work table from where they are delivered to the print heads individually by suction. The curable inks are pre-packaged to avoid any need for manual pouring and all are non-volatile, environment friendly organic compounds.

Below. A well-engineered UV lamp system to both sides of the print head means inks cure almost immediately, making the CoJet a seriously productive machine for any manufacturer requiring just-in-time, custom-designed décors.



Above. The table of the machine will handle materials of up to 100mm in thickness and will even print down into routed patterns, such as on MDF door blanks.

Left. Automatic adjustment accommodates materials of varying or uneven thickness and quick-drying inks help to raise productivity. Twin motors and a synchronous servo make for high precision printing on a flat-bed table using six-colour print delivery with two additional colours also optionally available.



Main. The Morbidelli Uniflex HP offers faster drilling.



brave investment

Since 1992, Brave Design has manufactured and supplied furniture to nursing and residential homes, universities, housing schemes and high dependency units as well as being a major contract furniture supplier to local authorities. With the business doing very well, directors Mark and Simon Hives decided to invest further in their factory, increasing the production area to 51,000 sq. feet and adding a much-needed drilling machine. Nearly every panel that goes through the factory requires drilling but with relatively small batch runs, conventional drilling machine set-up times are far too long. This, they concluded, was the area to improve.

Already well-established clients of SCM, and armed with the knowledge that Morbidelli was a specialist drilling machine manufacturer, a visit to Rimini was arranged for a demonstration of the Morbidelli Uniflex machine. Simon comments, "Both the infeed panel feeding system and a unique CNC controlled drilling unit looked more beneficial than what we had seen before. Although the specification was a lot more than we required, and delivery for a machine was four months, we decided to do a deal there and then for the showroom demonstration machine for delivery in four weeks time."

St Helens-based contract furniture manufacturer, Brave Designs, invests in a Morbidelli Uniflex HP CNC Drilling and Machining Centre from SCM Group UK.

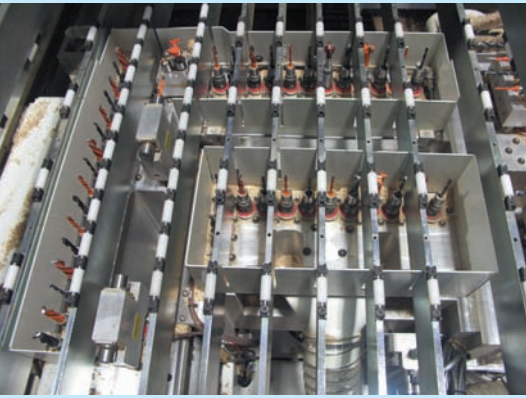
Equipped with infeed and outfeed tables, the Uniflex HP offers a continuous working cycle. Panels up to 3000x1300mm can be accommodated, with two panels, one on top of the other, fed into the machine. The infeed table consists of a number of bars covered with Flotex to avoid scratching of the lower surface. The operator places the panels on the bars, pushes the cycle start button, then a series of pushers feed the panels into the machine for exact alignment before entering the drilling area, where panel supports include special anti-scratch rollers that assist panel movement through the machine. Pressers at the infeed and outfeed of the drilling area clamp the panels automatically and precisely so that drilling, sawing/grooving and routing can be carried out without any

panel movement. The top and bottom drilling heads are produced in a single aluminium block and machined from a solid using Morbidelli's many years of experience in drilling block production. There are 34 independent vertical and 18 horizontal spindles both top and bottom, opposed to each other, with additional heads for horizontal, hinge drilling, etc.

The main features of Brave Design's Uniflex HP (not believed to be available on any other competitive drilling machine) are the additional CNC controlled drilling heads with additional 14 vertical spindles, that are located within the main drilling head. The CNC of the Uniflex HP optimises the required drilling pattern and, if the additional head can drill faster and more efficiently than the standard head, it is utilised to reduce the overall drilling cycle by between 40 and 50%, thus providing a much faster throughput of panels.

After drilling, the panels exit the drilling area on Flotex covered bars and are transported on small conveyor belts back to the operator for simple offloading and stacking as the next drilling cycle has already commenced.

In addition to drilling heads, Brave Design's machine has saw units for



Above. The main feature of Brave Design's UNIFLEX HP, and not available on any other competitive drilling machine, are the unique additional CNC controlled drilling heads with additional 14 vertical spindles, that are located within the main drilling head. The CNC of the UNIFLEX HP optimises the required drilling pattern and if the additional head can drill faster and more efficiently than the standard head, it is utilised and it can reduce the overall drilling cycle by between 40 and 50%, thus providing a much faster throughput of panels.

Below. Panel pushers.



grooving and 6.6kW Electrospindles for any additional work on the panel(s) as required. The machine is programmed off-line with programs taken to the machine on a memory stick, although a hard line is possible if required.

The basis of Morbidelli's software is a new concept Numerical Control with a PC interface, with an easy to use office PC equipped with a Windows environment. A bar code reader is included, as is parametric programming to avoid re-writing a program when the panel dimensions are altered. Graphic assistance avoids collisions of the drills and tools when through drilling and/or routing.

In order to make the whole factory more efficient and productive Brave Design decided to move 9 machines to accommodate the Morbidelli. Installation engineer, Mark Allen, arranged everything, including training of operators.

Simon Hives concluded, "We are extremely pleased with the Morbidelli Uniflex HP. It is dramatically increasing our production capacity with over 30% savings in drilling panels alone."

For further details of the Morbidelli Uniflex HP call 0115 9770044, fax 0115 9770946, visit www.scmgroup-uk.com or email scmgroupuk@scmgroup.com



The Streibig Control 4168 is a fully automatic vertical panel saw, fitted with a user-friendly touch and saw operating system and, in the case of the one owned by Bespoke Complete Services, an optional Electronic Positioning System. The Control has a cutting

range of 3300x1680mm and a cutting depth of 80mm. Lee McMahon, MD at the specialist door set manufacturer, said they had chosen the Control because "you program in the sizes and off the machine goes, fully automated, cutting down on human error." He also praised the level of service provided by TM Machinery Sales, Streibig's exclusive UK distributor.

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machine shop

Coupling Makita power tools to the new M-class VC3211M dust extractor is simple - the suction hose connects to the dust intake port, or extractor accessory on the power tool, and the power cable is plugged directly into the extractor. This means that the extractor is automatically working in parallel with the power tool as soon as it's switched on. The automatic self-cleaning filter system uses twin 3-stage filters and reverse air-flow is used the filters in turn so at least one filter is always in operation. The VC3211M has a large capacity stainless steel tank that can hold up to 32 litres of dry or 27 litres of wet material but is easily manoeuvrable on 2 main wheels and front castor.

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Joinery foreman James Wright (left) has nothing but praise for TM Services & Spares after they came to the rescue of Powells Joinery in Andover, when a Griggio four-headed planer/moulder broke down. At first, Powells called in a local engineer to fix it but to no avail. They then rang up TM Machinery, who gladly stepped in, sending down an engineer the following day to inspect the machine and provide a report of what was wrong and what parts

were needed. After ordering directly from the Italian manufacturer, the TM Services engineer returned to fit the parts - a short and long shaft, two double pinions, a length of Duplex chain and five bearings - and the vital machine was back to perfect working order. TM Services & Spares provide nationwide coverage and are confident that its highly trained field engineers can repair most types of woodworking machinery.

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